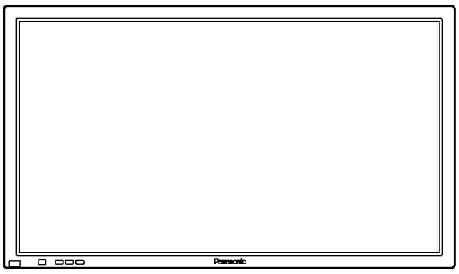
ORDER NO. ITD0105002C0
D10

Service Manual

High Definition Plasma Display



TH-50PHD3
TH-50PHW3

GPH3D Chassis

Specifications

Power Source:	AC220 - 240V 50/60Hz (A,B, and E version)
	AC120V 50/60Hz (U version)
Power Consumption:	530 W
	3.0W (stand-by condition)
	1.4W (Power off condition)
Plasma Display panel:	Drive method AC type
	50-inch, 16:9 aspect ratio
Contrast Ratio	3000:1
Brightness Capability	(Panel only) 500 cd / m^2
	(As a set) 300 cd / m^2
Screen size:	1106 mm (W)×622 mm (H)×1269 mm (diagonal)
	No. of pixels
	1,049,088 (1366 (W)×768 (H)) [4,098×768 dots]
Operating condition:	
Temperature	34 °F - 104 °F (0 °C - 40 °C)
Humidity	20 % - 80 %
Applicable signals:	
Color System	NTSC, PAL, PAL60, SECAM, Modified NTSC
Scanning format	525i (480i), 625i (575i), 525p (480p), 750p (720p), 1125i (1080i)
PC signals	XGA display
	VGA, SVGA
	SXGA, UXGA (compressed)
	Horizontal scanning frequency 15.5 - 110kHz
	Vertical scanning frequency 48 - 120Hz
Connection terminals:	
AV	

Video in (BNC)	1.0 Vp-p (75-ohm)
S-VIDEO IN (MINI DIN 4PIN)	Y: 1 Vp-p (75-ohm), C: 0.286 Vp-p (75-ohm)
AUDIO IN (RCA PIN JACK × 2)	0.5 Vrms (high impedance)
COMPONENT/RGB	
Y/G (BNC)	1.0 Vp-p/composite (75-ohm)
	0.7 Vp-p/non-composite (75-ohm)
P_B/B (BNC)	0.7 Vp-p (75-ohm)
P_R/R (BNC)	0.7 Vp-p (75-ohm)
HD (BNC)	1.0 - 5.0 Vp-p (high impedance)
VD (BNC)	1.0 - 5.0 Vp-p (high impedance)
AUDIO IN (RCA PIN JACK×2)	0.5 Vrms (high impedance)
PC	
(HIGH-DENSITY D-SUB15PIN)	R,G,B/0.7 Vp-p (75-ohm)
	HD, VD/1.0 - 5.0 Vp-p (high impedance)
AUDIO IN (M3.5 JACK)	0.5Vrms (high impedance)
SERIAL	
EXTERNAL CONTROL TERMINAL (D-SUB9PIN)	RS-232C COMPATIBLE
SPEAKERS (6Ω)	16W [8 W×8 W] (10 % THD)
	For TY-SP50PHD3W only
Dimensions (W×H×D):	47.6” (1210 mm)28.5” (724mm) 3.9” (98 mm)
Weight (Mass)	approx. 99.2 lbs (main unit only) 45.0 kg
	approx. 1093 lbs (with speakers) 49.6 kg

Panasonic®

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 Plasma Display Technology

1.1. Plasma display panel

	CRT	PDP
Scan	Dot Sequence	Line Sequence
	Interlace/ Progressive	Progressive
Emission	Dot Sequence	Simultaneous
Phosphor Excitation	Electron	Ultra Violet Lay
Brightness Control	Beam Current control	Discharge Time control (Sub-Filed Drive)

Fig. A

Panasonic 42 inch wide plasma display panel is develope for large screen multimedia display with space saving.

The plasma display panel use AC type Sub-field drive system with Dual scanning system.

This panel have also Panasonic original Asymmetric cell and Plasma AI technology.

Fig. A Is the CRT and Plasma Display Panel(PDP) comparison chart.

1.2. Plasma display panel structure

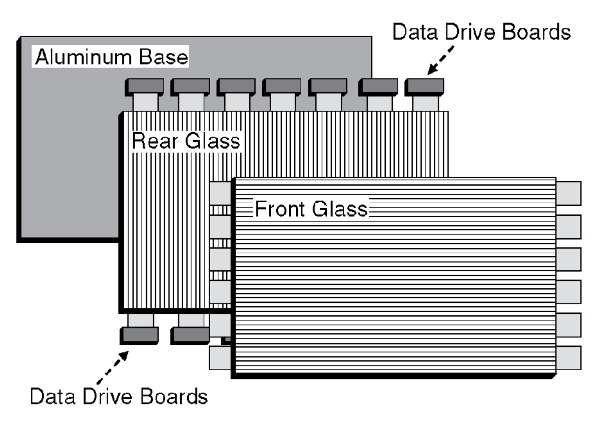

Data Drive Boards
Aluminum Base
Rear Glass
Front Glass
Data Drive Boards

Fig. B

Plasma display panel structure

Panasonic Plasma display panel is consist of front glass, rear glass and Aluminum base.

The front glass has each 768 lines scan and sustain transparence electrodes.

The rear glass has 4098 (1366 x 3) data electrodes on the inner surface. These electrodes are connected to the data drive circuit boards directory.

1.3. Rear Glass Structure

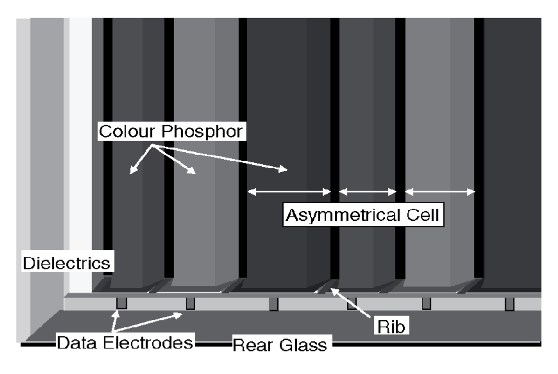

Colour Phosphor
Asymmetrical Cell
Dielectrics
Rib
Data Electrodes
Rear Glass

Fig. C

On the rear glass the data electrode is mounted.

The dielectric is coated on the rear glass.

Red, Green and Blue colour phosphors are formed on the data electrode with the ribs. However to improve colour reproduction and brightness, each colour phosphors are formed different width This is called " Asymmetrical cell " as Panasonic original technology.

1.4. Front Glass Structure

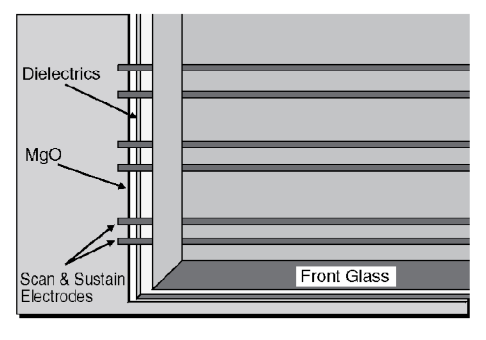

Dielectrics
MgO
Scan & Sustain Electrodes
Front Glass

Fig. D

On the front glass scan and sustain transparent electrodes are mounted in pair.

The dielectrics is coated on the front grass.

MgO over coat is also applied on the dielectrics.

The front and rear glasses are piled and sealed . And low presser gas are charged between two glasses.

1.5. Pixel Structure

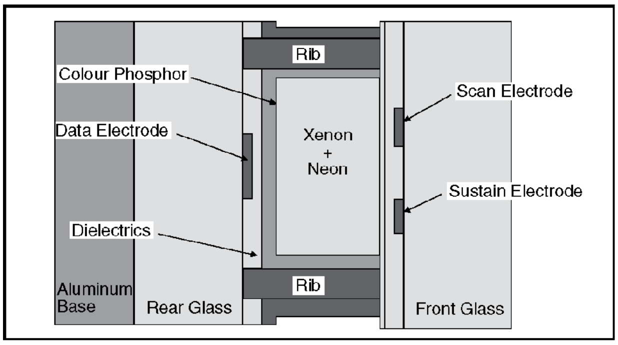

Colour Phosphor
Data Electrode
Dielectrics
Aluminum Base
Rear Glass
Rib
Xenon + Neon
Rib
Scan Electrode
Sustain Electrode
Front Glass

Fig. E

50 inch plasma display panel has 1,049,088 pixels.

Each pixels structure is shown fig. E.

1.6. Sub Field Drive system

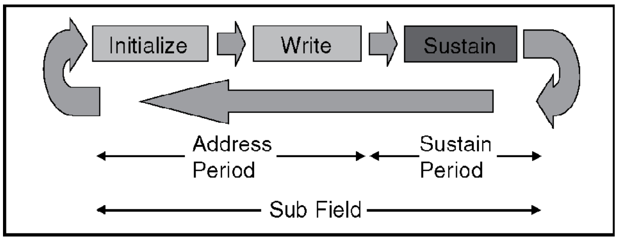

Initialize
Write
Sustain
Address Period
Sustain Period
Sub Field

Fig. F

Brightness control of plasma display panel is carried out by plasma discharge time change. To control each pixelís brightness Sub-field drive system is used.

A sub-field is consist of Initialize, Write and sustain operation.

1.7. Initialization

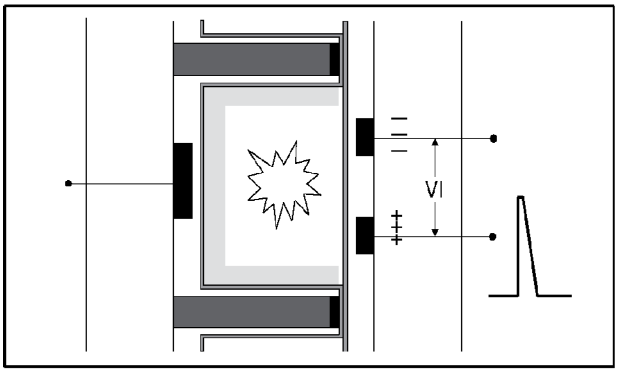


Fig. G

To clear any remaining electric charge into the pixel, trapezoid voltage is applied between the scan and sustain electrodes.

Plasma discharge is started but the discharge become small gradually.

Then any electric charge is cleared.

1.8. Write

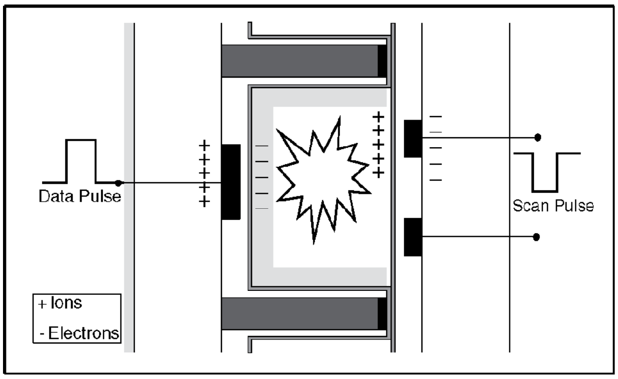

Data Pulse
Scan Pulse
+ Ions
- Electrons

Fig. H

Data Pulse which is positive polarity is input to data electrode and Scan pulse which is negative polarity is input to scan electrode simultaneously.

That means sum of data and scan pulses voltage is applied between two electrodes as discharge start voltage.

Discharge is started into the pixel and gas is ionized.

During discharging Ion is charged on the scan electrode side and electron is charged on data electrode side.

1.9. Wall Voltage

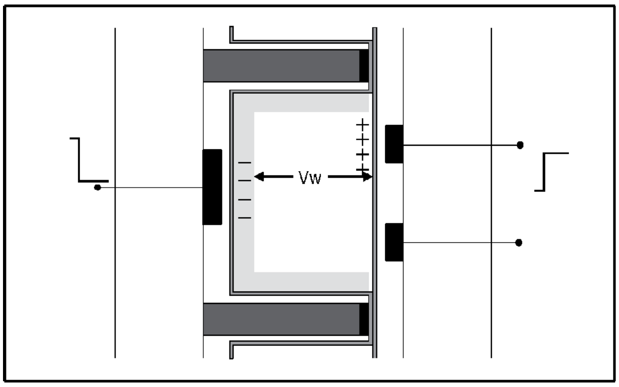


Fig. I

When input pulses are stopped, Ions and Electrons which are charged on the dielectric around the electrodes are remained.

This charge is called Wall Voltage (Pilot voltage).

This operation is called Write .

1.10. Sustain Step 1

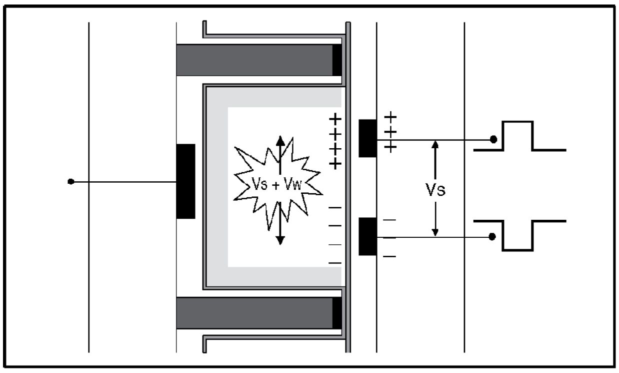


Fig. J

Negative polarityís Sustain pulse is input between sustain and scan electrodes and voltage potential between two electrodes becomes sum of Sustain pulse and wall voltage.

Then discharge start.

1.11. Sustain Step 2

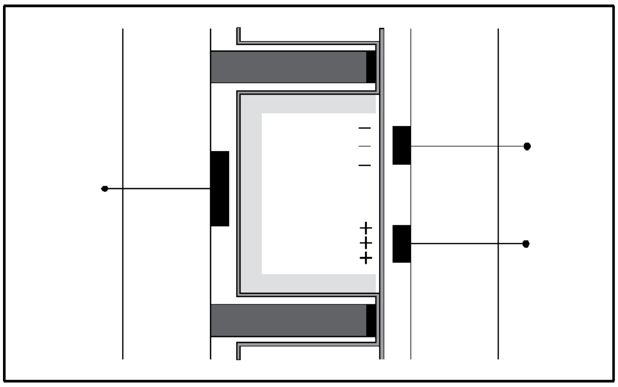


Fig. K

When sustain pulse is stopped, Ions and Electrons are remained again as Wall voltage. However polarity of wall voltage is reversed.

1.12. Sustain Step 3

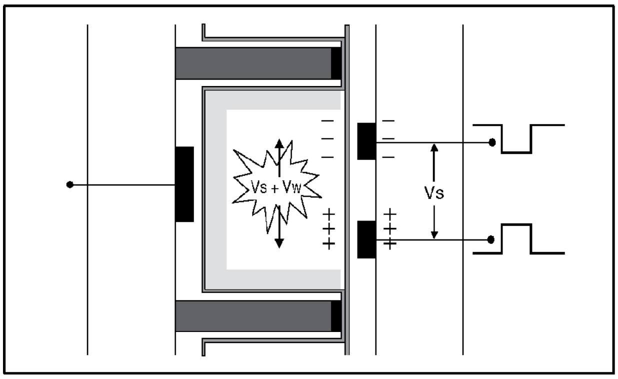


Fig. L

Positive polarity´s Sustain pulse is input between sustain and scan electrodes and discharge start again.

1.13. Sustain Step 4

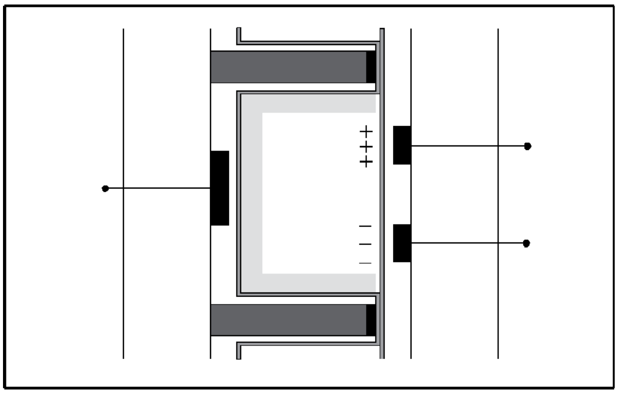


Fig. M

When sustain pulse is stopped, Ions and Electrons are remained again as Wall voltage. However polarity of wall voltage is reversed.

1.14. Sustain Step 5

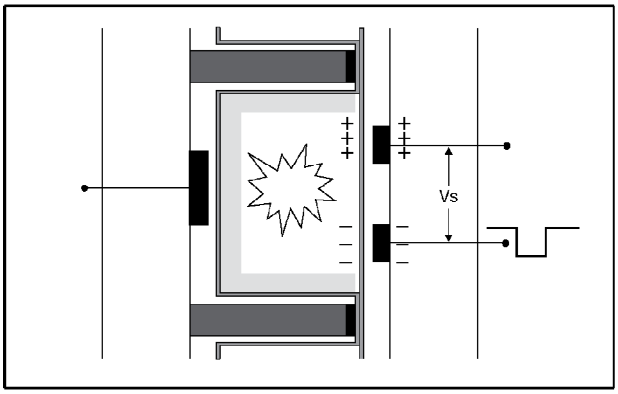


Fig. N

Ions and Electrons which is generated by 2nd sustain discharge are charged on the pixel wall(dielectric) around the electrodes.

1.15. Repeat Step 1 to Step 5

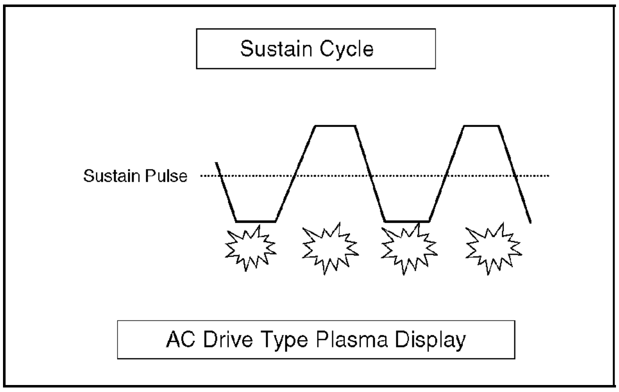

Sustain Cycle
Sustain Pulse
AC Drive Type Plasma Display

Fig. O

To keep discharge continuously step 1 to 5 operation will be repeated.

As the result sustain pulse is alternated. Therefore we call this drive system AC Drive type.

If sustain operation is repeated longer, brightness level of the pixel is increased. Therefore depend on sustain discharge time brightness of pixel is controlled.

1.16. Sub-Field drive

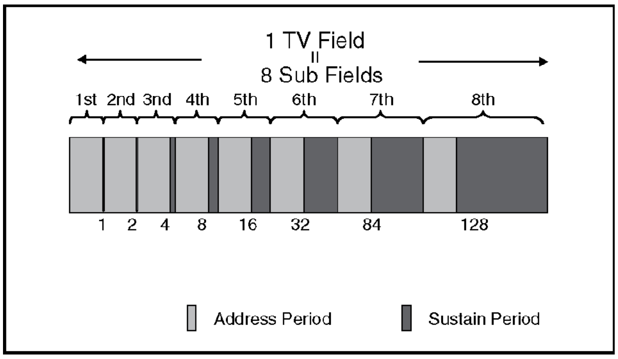

1 TV Field
=
8 Sub Fields
1st
2nd
3nd
4th
5th
6th
7th
8th
1
2
4
8
16
32
84
128
Address Period
Sustain Period

Fig. P

Sub-Field drive is PDP unique system.

While one TV field period, 8 bits digital video signal component is reproduced by 8 sub-fields operation.

Each Sub-Field´s address period are all same.(Consist of one initialization and 768 scanning operation)

But Sustain period of each Sub-Field are different.1st Sub-Field(SF) reproduce only 1 step brightness.

2nd SF reproduce 2 steps brightness.

Each sub-field´s sustain period are increased gradually.

However total 256 brightness difference can be reproduced on the screen.

1.17. Dual Scan

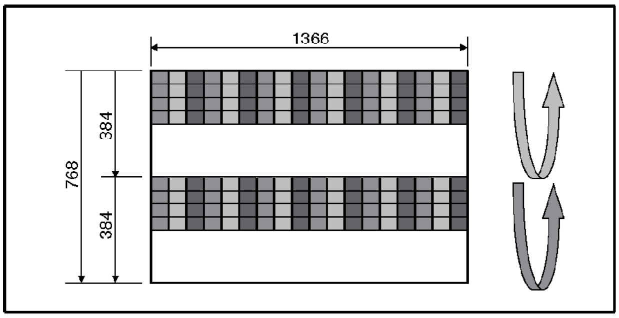


Fig. Q

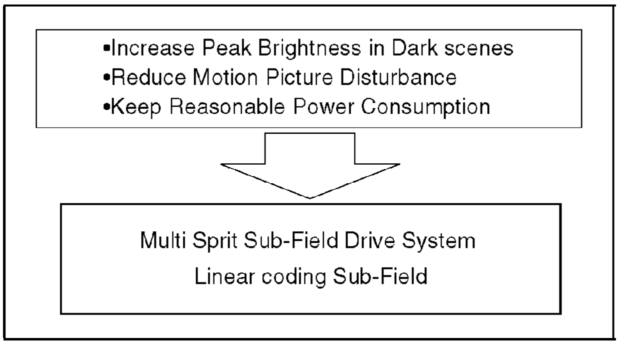
The sustain period of sub-field drive system. Therefore brightness peak is limited. Because 768 horizontal lines scanning is carried out during address period.

Dual scan system can reduce scanning time from 768 to 384 in the address period.

Then spaced time by dual scanning can be used for sustain operation.

As the result Brightness peak level can be increased.

1.18. Plasma AI (Adaptive brightness Intensifier)



•Increase Peak Brightness in Dark scenes
•Reduce Motion Picture Disturbance
•Keep Reasonable Power Consumption

Multi Sprit Sub-Field Drive System
Linear coding Sub-Field

Fig. R

Panasonic plasma AI control sub-field drive operation which is called Multi-Sprit Sub-Field drive control system.

Depend on the picture contents (APL : Average Picture Level) sustain time format of each sub-field are also rearranged from binary format to linear cording sustain time. (Linear coding sub-field)

Plasma AI select the best display condition for Plasma display panel to display natural and crisp picture.

1.19. Real Black drive

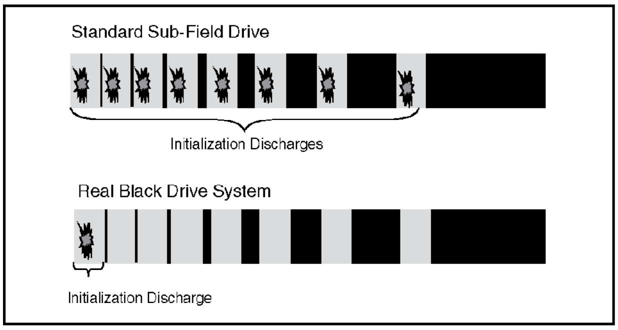


Fig. S

For standard sub field drive, initialization discharge is done at each sub field. So that during one TV field period same sub field numbers of discharges are done even black signal was displayed.

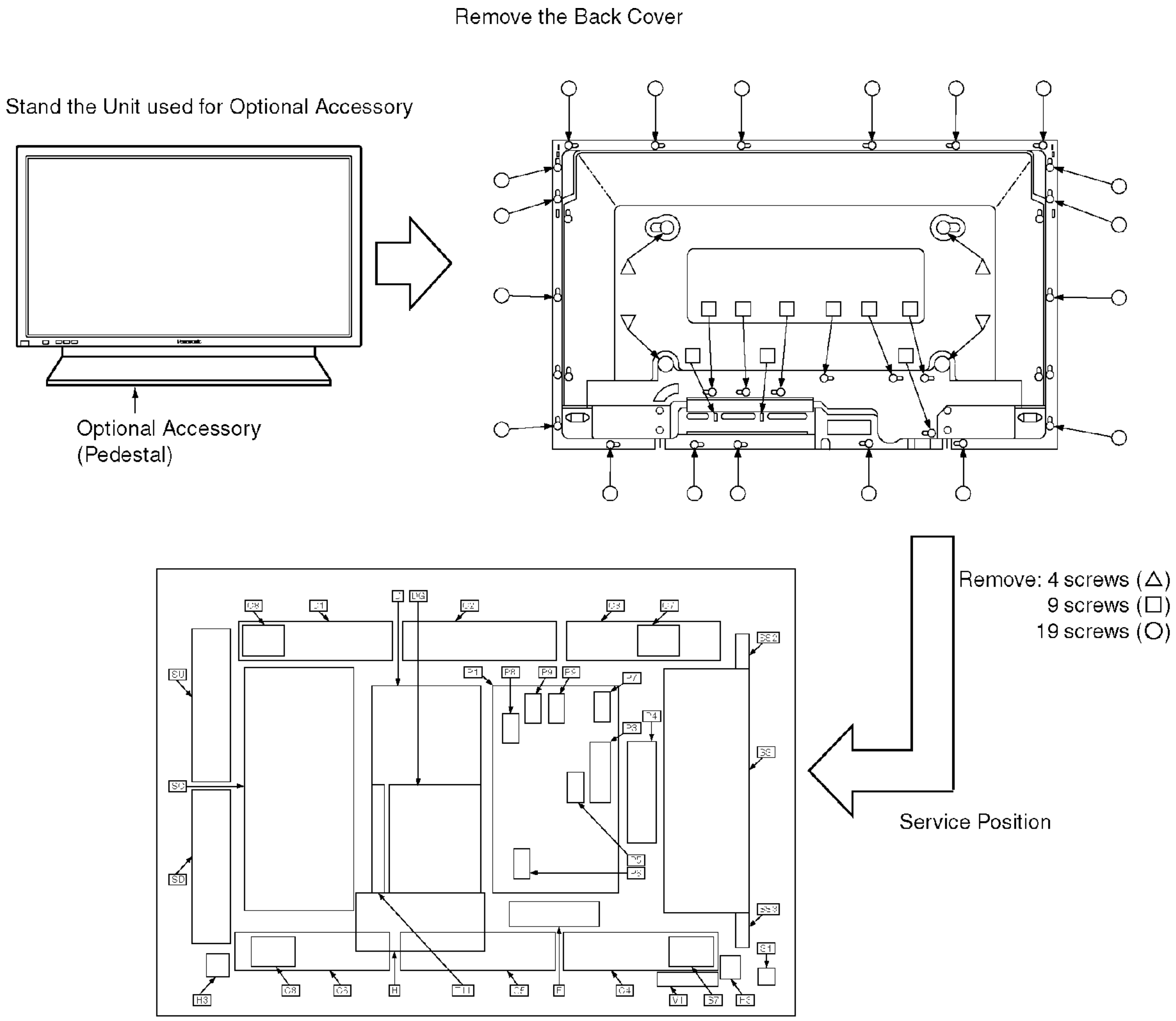
Therefore there are small emission at the black area.

Panasonic Real Black drive system improve black reproduction.

Initialization discharge is done at first sub field only.

Remaining sub field are not required discharge because Real Black drive circuit applies initialization electric field remainder pulse.

2 Service Hint


Remove the Back Cover
Stand the Unit used for Optional Accessory
Optional Accessory
(Pedestal)
Remove: 4 screws (△)
9 screws (□)
19 screws (○)
Service Position
C8
C1
D
DG
C2
C3
C7
SS2
SU
P1
P8
P9
P7
P4
P3
SS
SC
P5
P6
SD
SS3
S1
H3
C8
C6
H
T11
C5
F
C4
V1
S7
F3

Baord name	Function	Board name	Function
C1	Data drive (Upper Left)	P4	Panel drive power
C2	Data drive (Upper Center)	P5	Processing voltage control
C3	Data drive (Upper Right)	P6	PFC oscillator
C4	Data drive (Lower Left)	P7	High Voltage protect
C5	Data drive (Lower Center)	P8	Low Voltage protect
C6	Data drive (Lower Right)	P9	Regulator
C7	Saving power	S1	Power switch
C8	Saving power	SC	Scan drive
D	Digital process & control	SD	Scan drive output (Lower)
DG	RGB/IF	SS	Sustain drive
F	Line Filter	SS2	Sustain connection (Upper)
F	Line Filter	SS3	Sustain connection (Lower)
H	Rear terminal	SU	Scan drive output (Upper)
H3	Speaker terminal	T11	Interface
P1	Power supply	V1	Front switch & Remote Receiver
P3	Sustain voltage control		

3 Adjustment Procedure

3.1. +B Set-up

3.1.1. Item / Preparation

1. Confirm the main voltage set switch Is set to 230V. (A, B, and E version) Confirm the main voltage set switch is set to 110V. (U version)

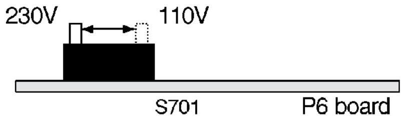
   Note:

   230V covers input AC voltage from 200V till 260V, and 110V covers from 90V till 130V.
2. Input a Grey scale signal.
3. Set the picture controls: -

   Picture mode: Normal

   White balance: Normal

3.1.2. Adjustments



Adjust and confirm indicated test point for the specified voltage.

Test point	Voltage	Volume	Name
P4 pin 1 (Hot)	400V ±1V	R548	PFC
Confirmation (Cold)			
P27 pin 5	16V ±0.5V		+15V
D5 pin 1	14V ±0.5V		+13.5V
DG6 pin 1	14V ±0.5V		Audio15V
DG6 pin 3	-14V ±0.5V		Audio-15V
D5 pin 5	5.2V ±0.3V		+5.25V
D5 pin 8	3.6V ±0.2V		+3.65V
D7 pin 4	5V ±0.3V		STB5V

3.2. Driver Set-up

3.2.1. Item / Preparation

1. Input an APL 100 % white signal.
2. Set the picture controls: -

   Picture mode: Normal

   White balance: Cool

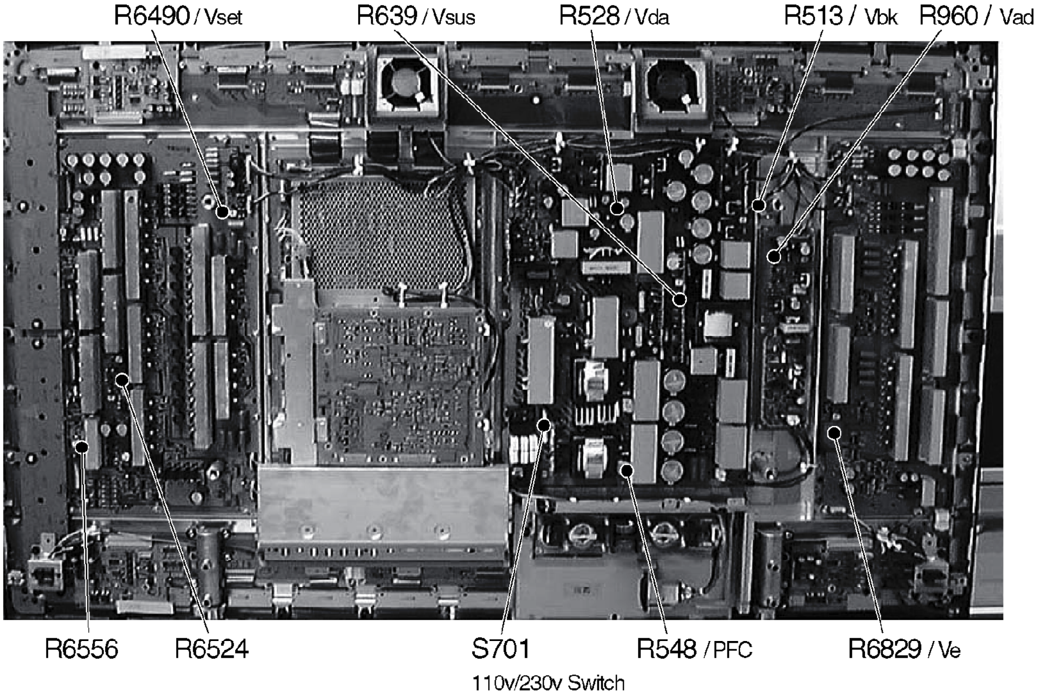
   Aspect: 16:9

3.2.2. Adjustments

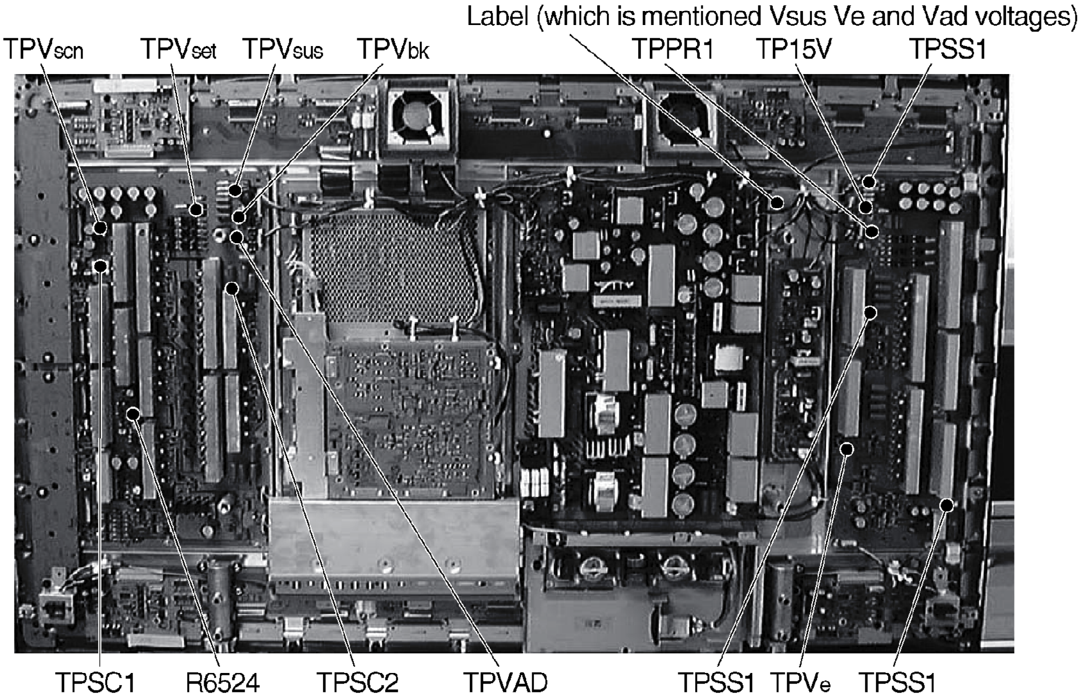
Adjust driver section voltages referring the panel data on the panel data label.

Test point	Voltage	Volume	Name
TPVSUS (SS-BOARD)	VSUS ±1V	R639(P3-BOARD)	Vsus
TPVBK (SC-BOARD)	140 V ±5V	R513(P1-BOARD)	Vbk
TPVE (SS-BOARD)	VE ±0.5V	R6829(SS-BOARD)	Ve
TPVSET (SC-BOARD)	224 V ±1V	R6490(SC-BOARD)	Vset
TPVAD (SC-BOARD)	VAD ±1V	R960(P4-BOARD)	Vad
P27 pin2 (P1-BOARD	75 V ±0.5V	R528 (P1-BOARD)	Vda
Between TPVscn and TPVAD (SC-BOARD)	120 + (Vad) ±0.5V	R967 (P4-BOARD)	Vscan

3.3. Adjustment Volume Location


R6490 / Vset
R639 / Vsus
R528 / Vda
R513 / Vbk
R960 / Vad
R6556
R6524
S701
110v/230v Switch
R548 / PFC
R6829 / Ve

3.4. Test Point Location

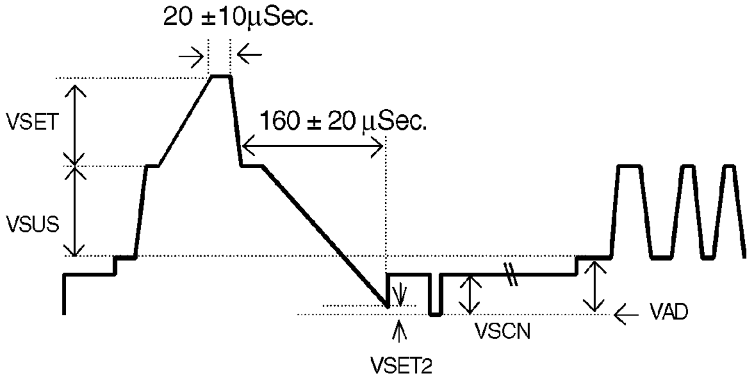

Label (which is mentioned Vsus Ve and Vad voltages)
TPVscn
TPVset
TPVsus
TPVbk
TPPR1
TP15V
TPSS1
TPSC1
R6524
TPSC2
TPVAD
TPSS1
TPVe
TPSS1

3.5. Initialization Pulse Adjust

1. Input a Cross hatch signal.
2. Set the picture controls: -
   Picture mode: Normal
   White balance: Cool

Adjust the indicated test point for the specified wave form.

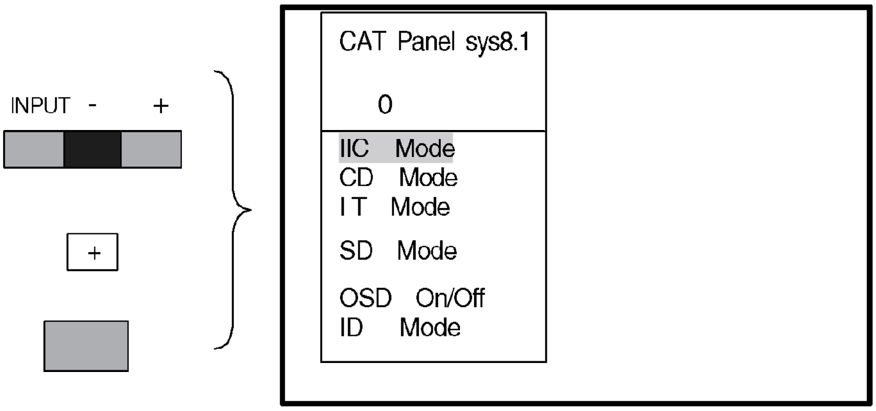
Test point	Volume	
TPSC1 (SC)	R6524 (SC)	20 ± 10μ Sec
TPSC1 (SC)	R6556 (SC)	160 ± 20μ Sec


20 ±10μSec.
VSET
160 ± 20 μSec.
VSUS
VAD
VSCN
VSET2

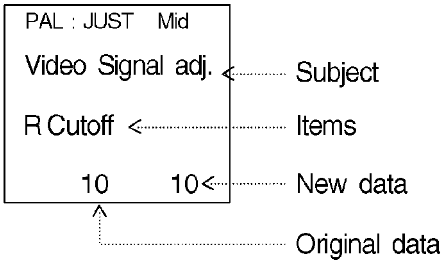
4 Alignment Setting

4.1. How to access Alignment

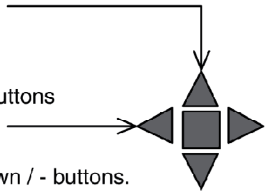
1. Press and hold the **Volume down / -** button on the front panel of the unit and press the **status [+]** button on the remote control 3 times quickly within 1 second, this will place the unit into the CAT menu (Main service mode)


INPUT - +
+
CAT Panel sys8.1
0
IIC Mode
CD Mode
IT Mode
SD Mode
OSD On/Off
ID Mode

2. Press the Access button on the remote control.


PAL : JUST Mid
Video Signal adj.
R Cutoff
10 10
Subject
Items
New data
Original data

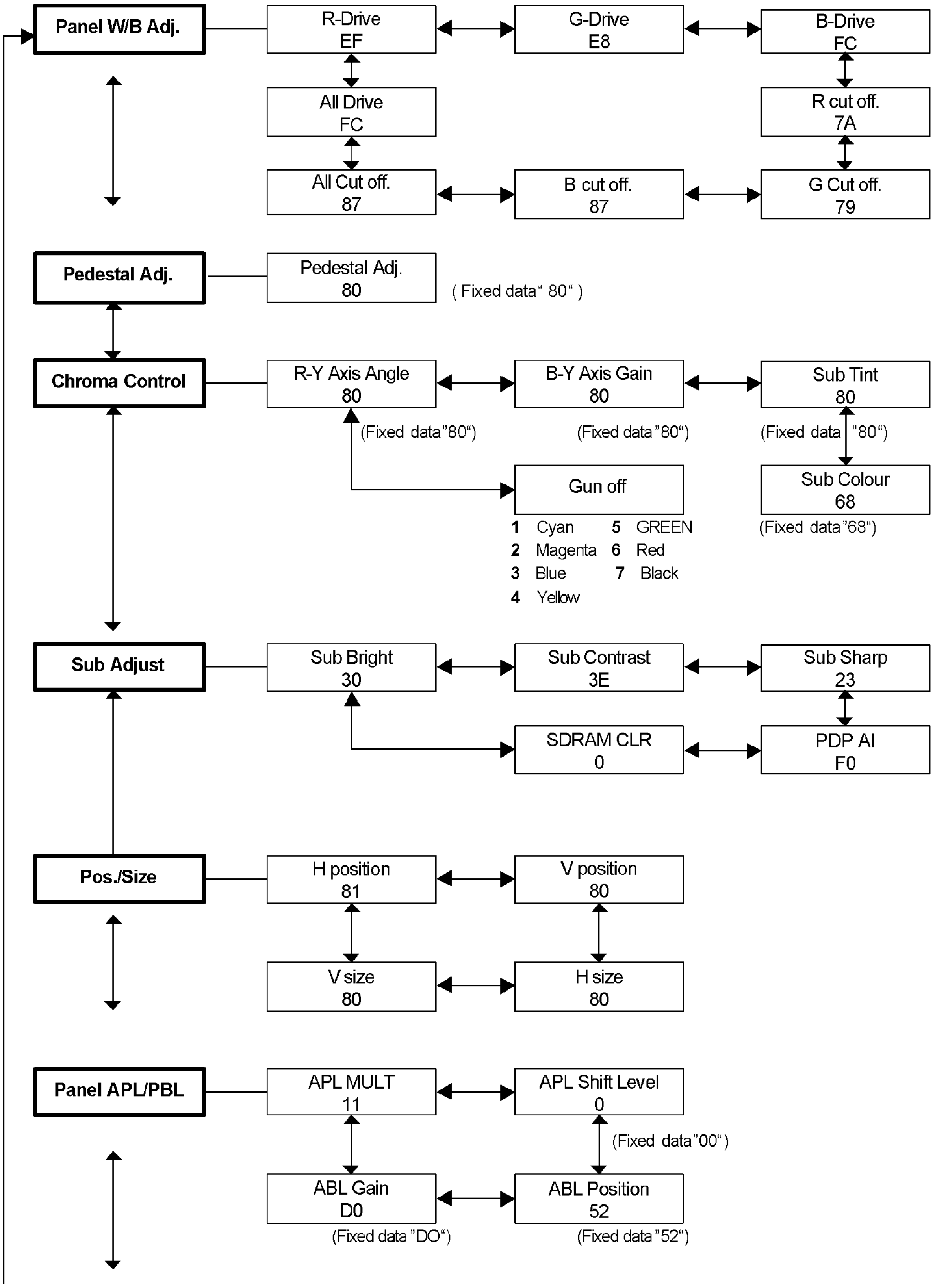
3. Select the alignment Subject by the UP or DOWN button of the Cross buttons on the remote control.
4. Select the alignment item by the LEFT or Right buttons of the Cross buttons on the remote control.
5. Adjust optimum setting by Volume Up / + and Down / - buttons.

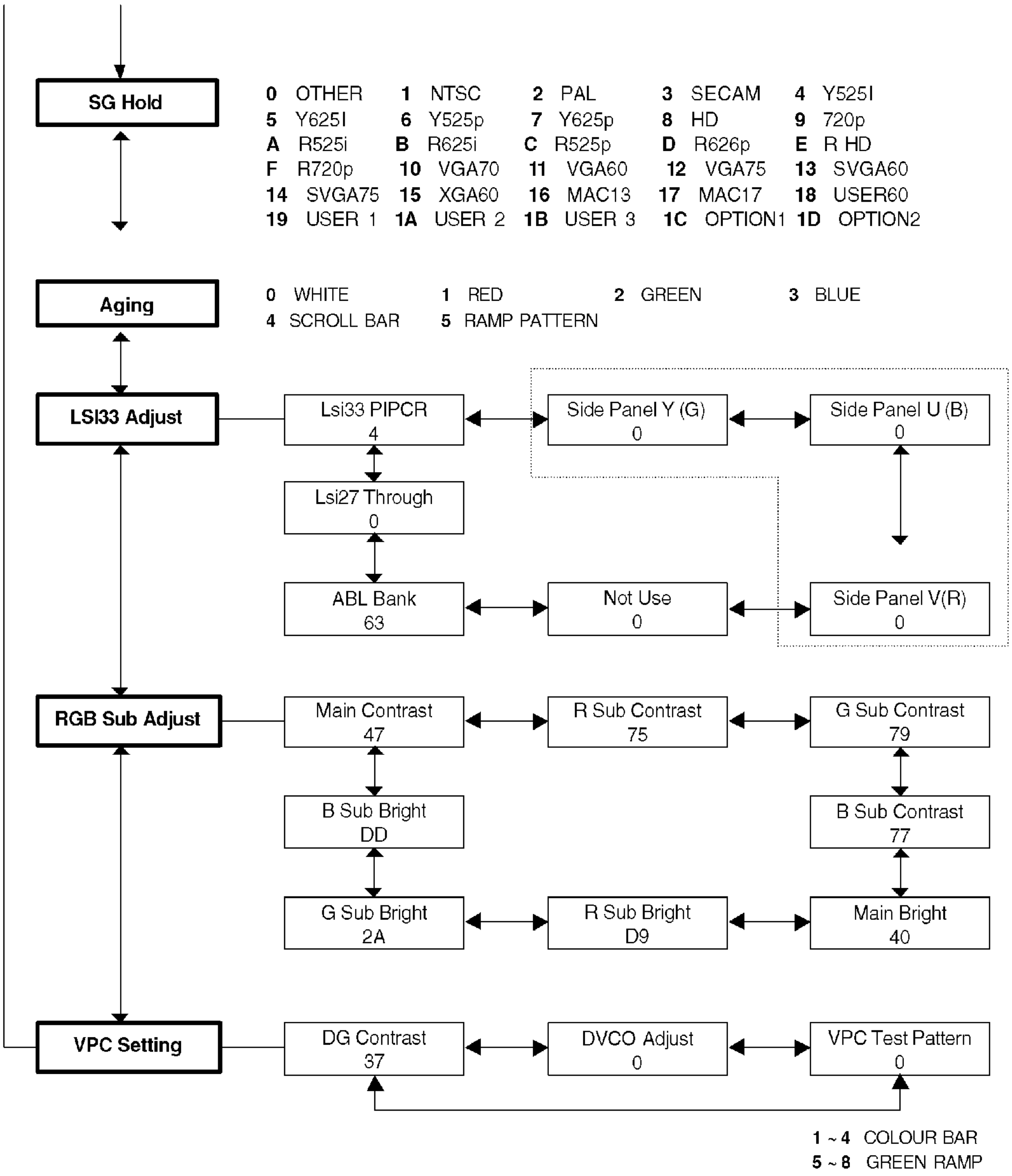


4.2. Exit

1. To exit the **IIC mode**, press the **R** button on the remote control.
2. To exit the **CAT mode**, access the **ID mode** by the down button of cross buttons and switch off the main power and on again.

4.3. IIC menu structure

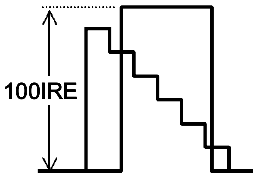

Panel W/B Adj.
R-Drive
EF
G-Drive
E8
B-Drive
FC
All Drive
FC
R cut off.
7A
All Cut off.
87
B cut off.
87
G Cut off.
79
Pedestal Adj.
Pedestal Adj.
80
(Fixed data" 80")
Chroma Control
R-Y Axis Angle
80
B-Y Axis Gain
80
Sub Tint
80
(Fixed data"80")
(Fixed data"80")
(Fixed data "80")
Gun off
Sub Colour
68
1 Cyan
5 GREEN
2 Magenta
6 Red
3 Blue
7 Black
4 Yellow
(Fixed data"68")
Sub Adjust
Sub Bright
30
Sub Contrast
3E
Sub Sharp
23
SDRAM CLR
0
PDP AI
F0
Pos./Size
H position
81
V position
80
V size
80
H size
80
Panel APL/PBL
APL MULT
11
APL Shift Level
0
(Fixed data"00")
ABL Gain
D0
ABL Position
52
(Fixed data"DO")
(Fixed data"52")


SG Hold
0 OTHER
1 NTSC
2 PAL
3 SECAM
4 Y525I
5 Y625I
6 Y525p
7 Y625p
8 HD
9 720p
A R525i
B R625i
C R525p
D R626p
E R HD
F R720p
10 VGA70
11 VGA60
12 VGA75
13 SVGA60
14 SVGA75
15 XGA60
16 MAC13
17 MAC17
18 USER60
19 USER 1
1A USER 2
1B USER 3
1C OPTION1
1D OPTION2
Aging
0 WHITE
1 RED
2 GREEN
3 BLUE
4 SCROLL BAR
5 RAMP PATTERN
LSI33 Adjust
Lsi33 PIPCR 4
Side Panel Y (G) 0
Side Panel U (B) 0
Lsi27 Through 0
ABL Bank 63
Not Use 0
Side Panel V(R) 0
RGB Sub Adjust
Main Contrast 47
R Sub Contrast 75
G Sub Contrast 79
B Sub Bright DD
B Sub Contrast 77
G Sub Bright 2A
R Sub Bright D9
Main Bright 40
VPC Setting
DG Contrast 37
DVCO Adjust 0
VPC Test Pattern 0
1 ~ 4 COLOUR BAR
5 ~ 8 GREEN RAMP

5 Alignment

5.1. DG contrast

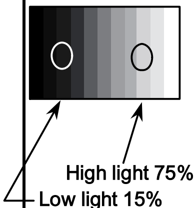
(Composit video signal)

	INPUT	Equipment	Test Point	Alignment menu		Level	Remark
				Subject	Item		
1	NTSC Colour Bar	Oscilloscope	TP8004 (DG Boad)	VPC SETTING	DG CONTRAST	0.7V+-0.02V (3A)	
2	PAL Colour Bar	Oscilloscope	TP8004 (DG Board)	VPC SETTING	DG CONTRAST	0.55V+-0.02V (3A)	

5.2. DVCO adjust

	INPUT	Equipment	Test Point	Alignment menu		Procedure
				Subject	Item	
1	NTSC or PAL Colour Bar Standard signal	-	-	VPC SETTING	DVCO SETTING	1) Access to DVCO SETTING mode. 2) Press ACCESS key on remote then automatic DVCO setting is started. 3) When data becomes " 1 "adjustment is completed. . * Do not use this function without input signal.

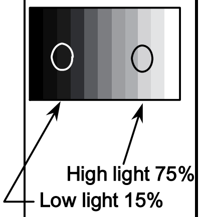
5.3. NTSC panel white balance

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	NTSC Gray Scale Pattern  High light 75% Low light 15%	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m$_2$ as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m$_2$ exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-01. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m$_2$. 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-01. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again.
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

Color Temp.	x	y
Cool(Hi)	0.272	0.290
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

Fig. -01

5.4. PAL/SECAM panel white balance

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	PAL Gray Scale Pattern 	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright	1) Find the nearest area to brightness of 10 cd/m$_2$ as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m$_2$ exactly.
				PANEL W/B G cut off	3) Set G cut off to " 80 ".
				PANEL W/B B cut off R cut off	4) Adjust B and R cut off to set color temperature as shown Fig.-02.
				Sub Adjust Sub Bright	5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m$_2$.
					6)Find 75% of white area by color sensor.
				PANEL W/B G Drive	7) Set G Drive to " D8 ".
				PANEL W/B B Drive R Drive	8) Adjust B and R Drive to set color temperature as shown Fig.-02.
					9) Repeat procedure 4) to 7) to set both Low light and high light.
				PANEL W/B R,G,B Drive R,G,B Drive	10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC".
				PANEL W/B R,G,B cut off	11) Re-adjust Low light level again.
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

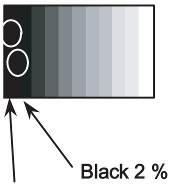
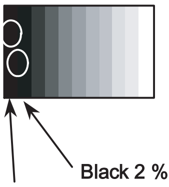
Color Temp.	x	y
Cool(Hi)	0.272	0.290
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

Fig. -02

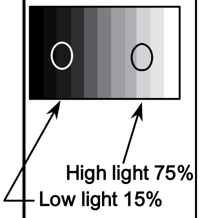
<table>
<tr><th></th><th></th><th>Equipment</th><th>Setting</th><th>Alignment menu</th><th>Procedure</th></tr>
<tr><td>5</td><td>

SECAM signal</td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table>
2) Input SECAM signal.
3) Copy PAL R,G,B drive and cut off data of each white balance mode to SECAM position.</td></tr>
</table>

5.5. Pedestal setting

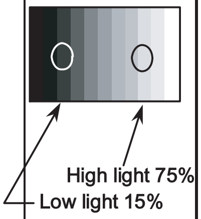
	INPUT	Equipment	Setting	Alignment menu	Procedure
1	Component (525i, 525p, 625i, 720i or 1080i) Gray Scale Pattern  		Picture: Normal White balance: **Cool** Aspect: 16:9	PANEL W/B R cut off G cut off B cut off	** Adjust at the dark room. 1) Set R,G and B cut off to " **80** ".
				Chroma Control: Gun off	2) Set Gun off to "**5**". (Only green pixels can emit.)
				RGB Sub Adjust: G Sub Bright	3) Adjust G Sub bright to start some of green pixels emission at black 2% area and no emission at black 0% area.
				Chroma Control: Gun off	4) Set Gun off to "**3**". (Only blue pixels can emit.)
				RGB Sub Adjust: B Sub Bright	5) Adjust B Sub bright to start some of blue pixels emission at black 2% area and no emission at black 0% area.
				Chroma Control: Gun off	6) Set Gun off to "**6**". (Only red pixels can emit.)
				RGB Sub Adjust: R Sub Bright	7) Adjust R Sub bright to start some of red pixels emission at black 2% area and no emission at black 0% area.
2	RGB(PC) Gray Scale Pattern  		Picture: Normal White balance: **Cool** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change input to RGB signal. 2) Repeat procedure 1) to 7) of Component input signal.

5.6. PC/RGB panel white balance

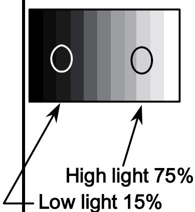
	INPUT	Equipment	Setting	Alignment menu	Procedure
1	PC Gray Scale Pattern 	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m2 as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m2 exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-03. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m2. 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-03. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again.
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

Color Temp.	x	y
Cool(Hi)	0.272	0.290
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

Fig. -03

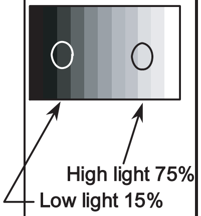
<table>
<tr><th></th><th>INPUT</th><th>Equipment</th><th>Setting</th><th>Alignment menu</th><th>Procedure</th></tr>
<tr><td>5</td><td>RGB
Gray Scale
Pattern
 </td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table>
2) Input RGB signal.
3) Copy PC R,G,B drive and cut off data of each white balance mode to RGB position.</td></tr>
</table>

5.7. HD/ 525i /525p panel white balance

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	HD (720i or 1080i) Gray Scale Pattern 	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9		1) Find the nearest area to brightness of 10 cd/m2 as Low light by color sensor.
				Sub Adjust Sub Bright	2) Adjust Sub bright to set Low light level to 10 cd/m2 exactly.
				PANEL W/B G cut off	3) Set G cut off to " 80 ".
				PANEL W/B B cut off R cut off	4) Adjust B and R cut off to set color temperature as shown Fig.-04.
				Sub Adjust Sub Bright	5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m2.
					6)Find 75% of white area by color sensor.
				PANEL W/B G Drive	7) Set G Drive to " D8 ".
				PANEL W/B B Drive R Drive	8) Adjust B and R Drive to set color temperature as shown Fig.-04.
					9) Repeat item 4) to 7) to set both Low light and high light.
				PANEL W/B R,G,B Drive R,G,B Drive	10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC".
				PANEL W/B R,G,B cut off	11) Re-adjust Low light level again.
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

Color Temp.	x	y
Cool(Hi)	0.272	0.290
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

Fig. -04

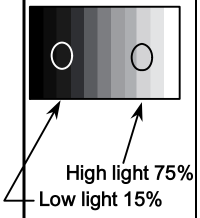
<table>
<tr><th></th><th>INPUT</th><th>Equipment</th><th>Setting</th><th>Alignment menu</th><th>Procedure</th></tr>
<tr>
<td>5</td>
<td>RGB
Gray Scale
Pattern
 </td>
<td></td>
<td>Picture:
Normal
Aspect:
16:9

White balance:
Cool
Normal
Warm</td>
<td></td>
<td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table>

2)Change input signal to 525i and 525p.

3) Copy HD drive and cut off data of each white balance mode to each signals position.</td>
</tr>
</table>

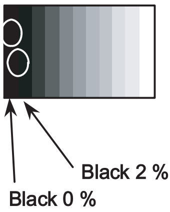
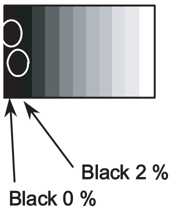
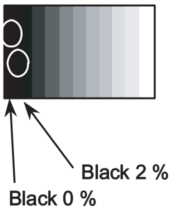
5.8. 625i panel balance

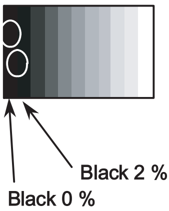
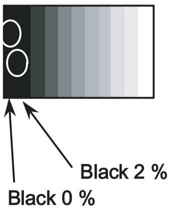
	INPUT	Equipment	Setting	Alignment menu	Procedure
1	625i Gray Scale Pattern 	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9		1) Find the nearest area to brightness of 10 cd/m$_2$ as Low light by color sensor.
				Sub Adjust Sub Bright	2) Adjust Sub bright to set Low light level to 10 cd/m$_2$ exactly.
				PANEL W/B G cut off	3) Set G cut off to " 80 ".
				PANEL W/B B cut off R cut off	4) Adjust B and R cut off to set color temperature as shown Fig.-05.
				Sub Adjust Sub Bright	5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m$_2$.
					6)Find 75% of white area by color sensor.
				PANEL W/B G Drive	7) Set G Drive to " D8 ".
				PANEL W/B B Drive R Drive	8) Adjust B and R Drive to set color temperature as shown Fig.-05.
					9) Repeat item 4) to 7) to set both Low light and high light.
				PANEL W/B R,G,B Drive R,G,B Drive	10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC".
				PANEL W/B R,G,B cut off	11) Re-adjust Low light level again.
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

Color Temp.	x	y
Cool(Hi)	0.272	0.290
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

Fig. -05

5.9. Sub brighness setting

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	NTSC Gray Scale Pattern 		Picture: Normal Aspect: 16:9	PANEL W/B All cut off	** Adjust at the dark room. 1) Set white balance to **Cool**. 2) Adjust All cut off to start some pixels emission at black 2% area and no emission at black 0% area. 3) Write down all cut off data. 4) Set white balance to **Nornal**. 5) Adjust All cut off to set same data of Cool mode. 6) Set white balance to **warm**. 7) Adjust All cut off to set same data of Cool mode.
2	PAL Gray Scale Pattern 		Picture: Normal Aspect: 16:9	PANEL W/B All cut off	** Adjust at the dark room. 1) Set white balance to **Cool**. 2) Adjust All cut off to start some pixels emission at black 2% area and no emission at black 0% area. 3) Write down all cut off data. 4) Set white balance to **Nornal**. 5) Adjust All cut off to set same data of Cool mode. 6) Set white balance to **warm**. 7) Adjust All cut off to set same data of Cool mode.
	SECAM Gray Scale Pattern				8) Change to SECAM signal. 9) Copy PAL All cut off data to SECAM mode.
3	PC Gray Scale Pattern 		Picture: Normal Aspect: 16:9	PANEL W/B All cut off	** Adjust at the dark room. 1) Set white balance to **Cool**. 2) Adjust All cut off to start some pixels emission at black 2% area and no emission at black 0% area. 3) Write down all cut off data. 4) Set white balance to **Nornal**. 5) Adjust All cut off to set same data of Cool mode. 6) Set white balance to **warm**. 7) Adjust All cut off to set same data of Cool mode.
	RGB Gray Scale Pattern				8) Change to RGB input signal. 9) Copy PAL All cut off data to SECAM mode.

	INPUT	Equipment	Setting	Alignment menu	Procedure
4	525i Gray Scale Pattern 		Picture: Normal Aspect: 16:9	PANEL W/B All cut off	** Adjust at the dark room. 1) Set white balance to **Cool**. 2) Adjust All cut off to start some pixels emission at black 2% area and no emission at black 0% area. 3) Write down all cut off data. 4) Set white balance to **Nornal**. 5) Adjust All cut off to set same data of Cool mode. 6) Set white balance to **warm**. 7) Adjust All cut off to set same data of Cool mode.
	525p Gray Scale Pattern				8) Change to 525p signal. 9) Copy 525i All cut off data to 525p mode.
	HD (720i or 1080i) Gray Scale Pattern				8) Change to HD signal. 9) Copy 525i All cut off data to HD mode.
5	625i Gray Scale Pattern 		Picture: Normal Aspect: 16:9	PANEL W/B All cut off	** Adjust at the dark room. 1) Set white balance to **Cool**. 2) Adjust All cut off to start some pixels emission at black 2% area and no emission at black 0% area. 3) Write down all cut off data. 4) Set white balance to **Nornal**. 5) Adjust All cut off to set same data of Cool mode. 6) Set white balance to **warm**. 7) Adjust All cut off to set same data of Cool mode.

5.10. Pos./Size setting

1. Receive the test pattern signal which can be found the center and edge position and align properly.

Alignment Item	Reference	Setting/Special feature
H Position	9A	Optimum setting
V Position	C3	Optimum setting
H Size	A8	Optimum setting
V Size	5E	Optimum setting

5.11. Panel APL/ABL

1. Confirm each data.

Alignment Item	Reference	Setting/Special feature
APL Shift Level	E2	Confirmation only
ABL Point	10	Confirmation only
ABL Gain	E0	Confirmation only
ABL Bank Select	3F	Confirmation only

5.12. SG Hold

SG Hold is the alignment tool for data copy function. Color / Signal system can be set regardless of input signal.

5.13. Aging

Aging mode is internal pattern generator for panel setting confirmation and the after image removal.

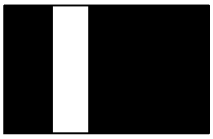
1. Access desired colour pattern by the Volume Up or Down button on the remote control.
2. To exit press Menu button

5.13.1. Panel Colour

There are 4 colour pattern White, Red, Blue and Green.

5.13.2. Scroll Bar

Scroll bar is for the after image removal. Display scroll bar approximately 15 minutes after alignment is competed.



< Scroll Bar >

5.13.3. Ramp pattern

Ramp pattern is for digital contrast reproduction confirmation.

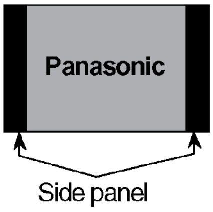
< Ramp pattern >

5.14. LSI 33 Adjust

LSI 33 PIPCR, LSI 27 Through and ABL Bank are for factory parameter setting for Format converter (IC9204).

5.14.1. Side panel color setting

Colour of side panel which are left and right side blank area of 4:3 aspect mode can be adjusted as desired color and brightness.

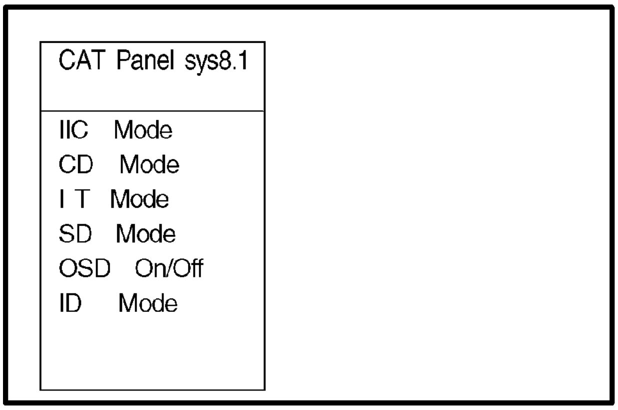


1. Access Side panel Y(G), U(B) and V(R) by the left or right button on the remote control.
2. Adjust desired color and brightness of side panel Y(G), U(B) and V(R) by Volume UP or Down button on the remote control.

   (If 4:3 aspect will be used long time, change side panel brightness optimum level for screen burn protection.)

5.15. CAT (Computer Aided Test) mode

Mode	Function	Access button
IIC	Service Alignment	Action
CD (Complete Diagnostics)	Software version information EEP ROM edit	Mute
IT (Integrated Text)	Not use	
SD (Status Display)	Factory use	Action
OSD on/off	OSD display switch	Mute
ID (Initial Data)	Not use	



CAT Panel sys8.1

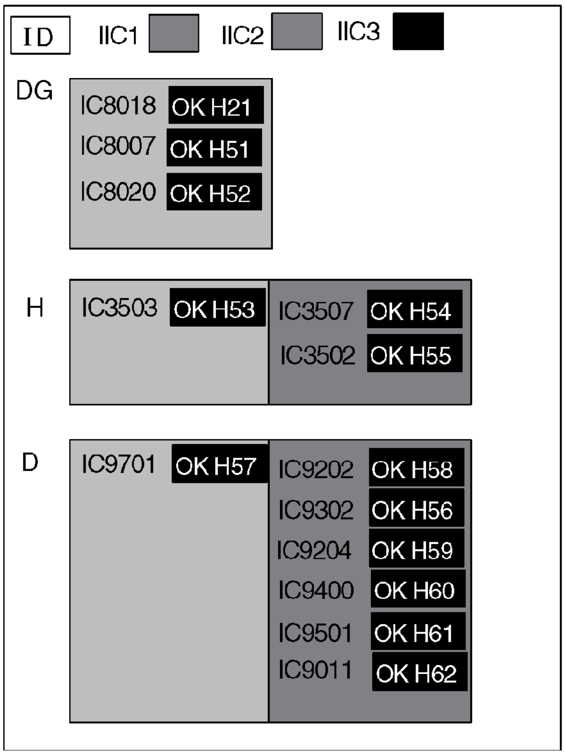
IIC Mode
CD Mode
I T Mode
SD Mode
OSD On/Off
ID Mode

(IT Mode, and ID Mode is unused in serving.)

6 Self Check

6.1. Display Indication

1. Self-check is used to automatically check the bus line controlled circuit of the Plasma display.
2. To get into the Self-check mode press the volume down button on the customer controls at the front of the set, at the same time pressing the OFF-TIMER button on the remote control, and the screen will show :-



ID IIC1 IIC2 IIC3

DG
IC8018 OK H21
IC8007 OK H51
IC8020 OK H52

H
IC3503 OK H53
IC3507 OK H54
IC3502 OK H55

D
IC9701 OK H57
IC9202 OK H58
IC9302 OK H56
IC9204 OK H59
IC9400 OK H60
IC9501 OK H61
IC9011 OK H62

If the CCU ports have been checked and found to be incorrect Or not located then " - - " will appear in place of " OK "

7 Trouble shooting guide

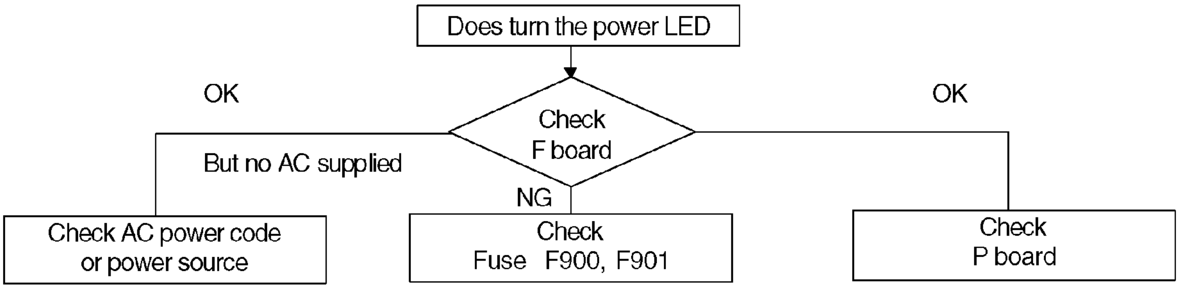
7.1. No Power

First check point

There are following 3 states of No Power indication by power LED.

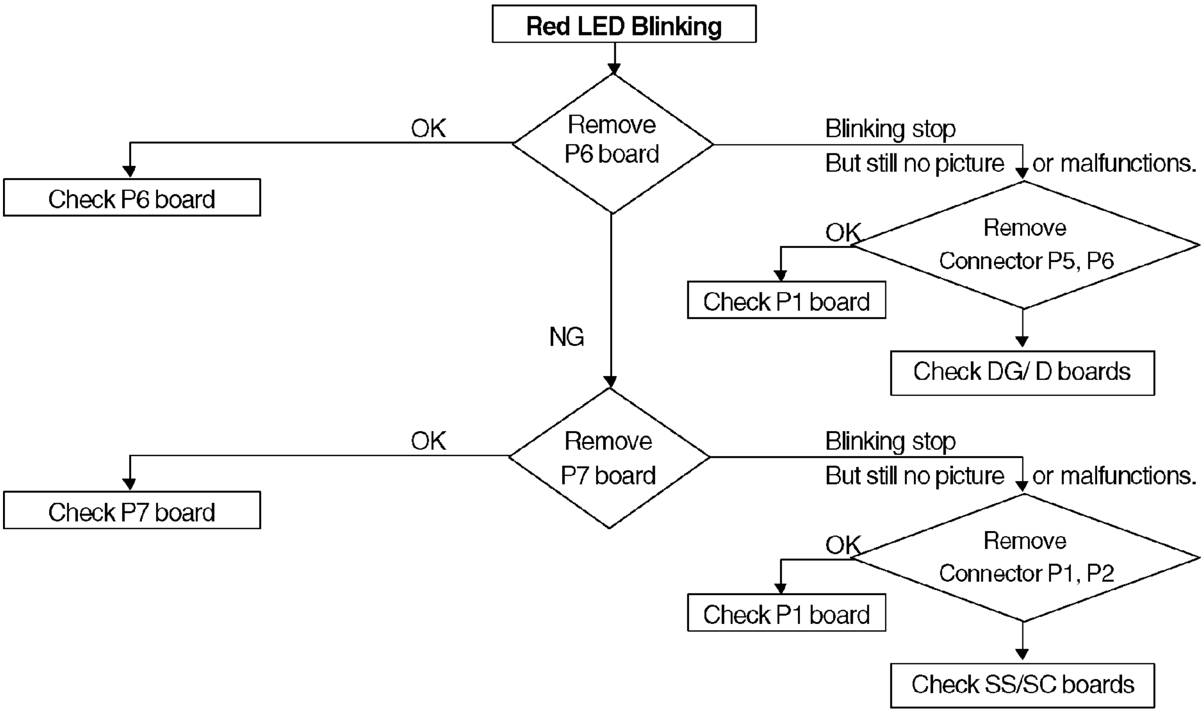
1. No lit
2. Green is lit then turns red blinking a few seconds later.
3. Only red is lit.

1. No lit

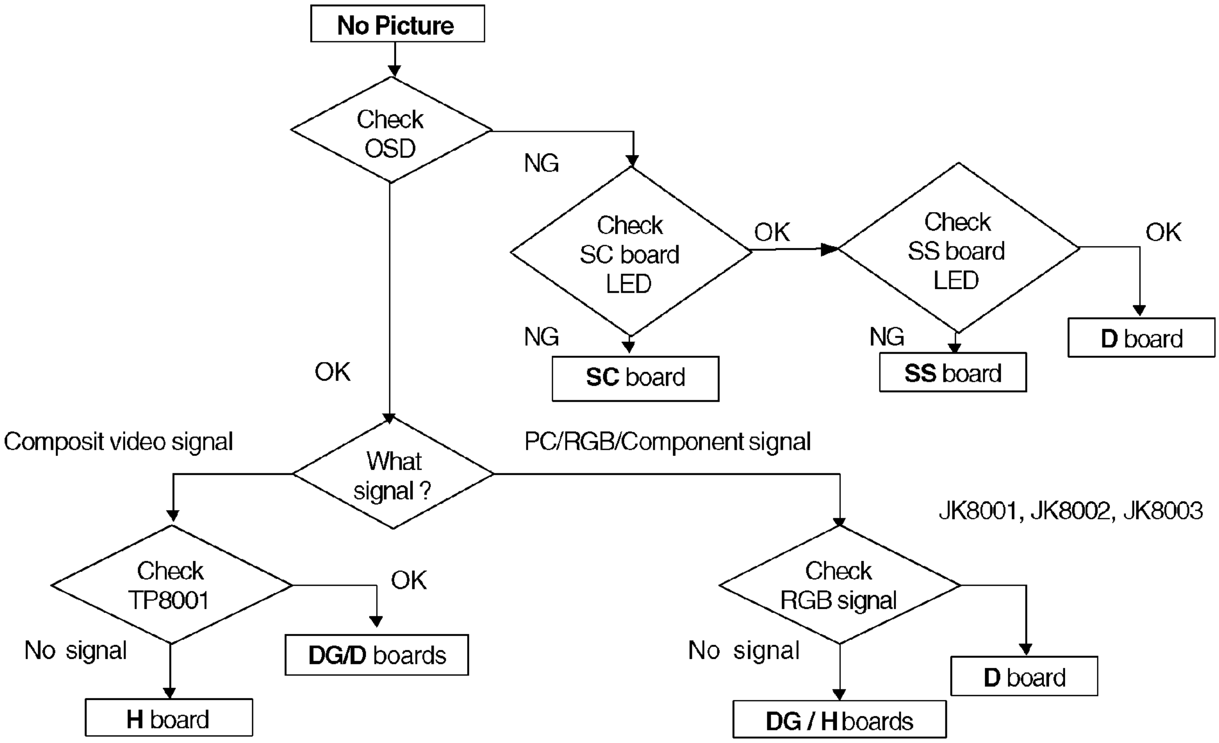

Does turn the power LED
OK
Check
F board
OK
But no AC supplied
NG
Check AC power code
or power source
Check
Fuse F900, F901
Check
P board

2. Red LED Blinking

When one or some of supply voltages from power supply circuit are declined red LED will be blinking as power

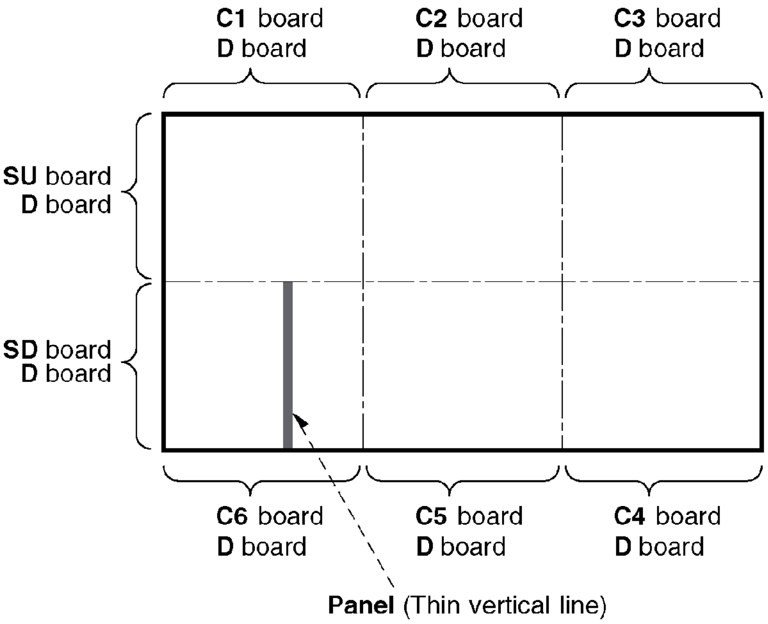

Red LED Blinking
OK
Remove
P6 board
Blinking stop
But still no picture
or malfunctions.
Check P6 board
OK
Remove
Connector P5, P6
Check P1 board
NG
Check DG/ D boards
OK
Remove
P7 board
Blinking stop
But still no picture
or malfunctions.
Check P7 board
OK
Remove
Connector P1, P2
Check P1 board
Check SS/SC boards

7.2. No Picture


No Picture
Check OSD
NG
Check SC board LED
OK
Check SS board LED
OK
D board
NG
SC board
NG
SS board
OK
Composit video signal
What signal ?
PC/RGB/Component signal
JK8001, JK8002, JK8003
Check TP8001
OK
DG/D boards
No signal
H board
Check RGB signal
No signal
D board
DG / H boards

7.3. Local screen failure

Plasma display may have local area failure on the screen. Fig - 1 is the possible defect P.C.B. for each local area.


C1 board
D board
C2 board
D board
C3 board
D board
SU board
D board
SD board
D board
C6 board
D board
C5 board
D board
C4 board
D board
Panel (Thin vertical line)

<Local screen failure chart>

Fig - 1

8 P.C.B. (Printed Circuit Board) exchange

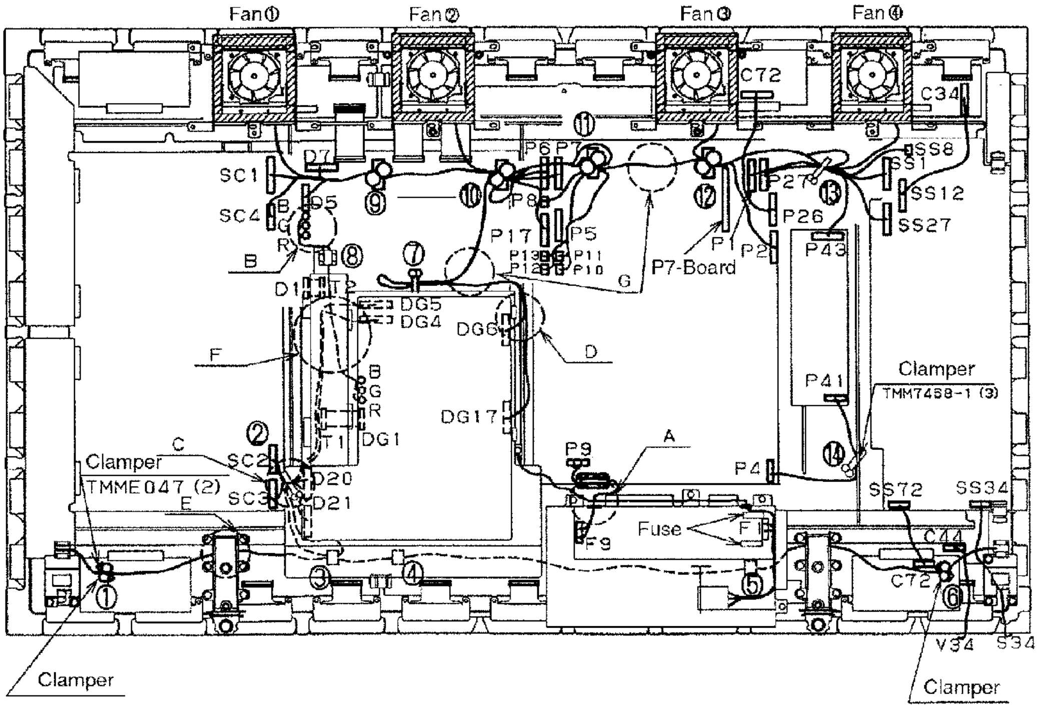
8.1. Caution

1. To remove P.C.B. , wait 1 minute after power was off for discharge from electrolysis capacitors.

8.2. Quick adjustment after P.C.B. exchange

P.C.B.	Item	Volume	Test point	Level
P board	Vsus	R639	TPVsus (SS)	Vsus ± 1 V
	Vbk	R513	TPVBK (SC)	140V ± 5 V
	Vda	R528	P27 connector pin2	75V ± 0.5 V
	PFC	R548	P4 connector pin 1	400V ± 1 V
DG board	DG contrast	DG contrast	TP8004(DG)	Refer to the alignment procedure
	DVCO	DVCO adjust		Automatic
SC board	Vset	R6940	TPSET(SC)	224V ± 1 V
	Vad	R960	TPVAD	VAD ± 1 V
SS board	Ve	R6829	TPVE	VE ± 1 V
D board	White balance, Pedestal and Sub brightness for NTSC, PAL, HD, PC and 625I signals.			

9 Location of Lead Wiring


Fan①
Fan②
Fan③
Fan④
C72
C34
⑪
P6 P7
SS8
SS1
SS12
SS27
SC1
D7
SC4
B
G
R
D5
⑨
⑩
P8
⑫
P27
⑬
P26
P17
P5
P13
P12
P11
P10
P1
P2
P43
P7-Board
G
B
⑧
⑦
D1
T2
DG5
DG4
DG6
D
F
B
G
R
T1
DG1
DG17
P41
Clamper
TMM7468-1 (3)
⑭
C
②
Clamper
TMME047 (2)
SC2
SC3
D20
D21
E
P9
A
P4
SS72
SS34
Fuse
F1
F9
C44
C72
①
③
④
⑤
⑥
V34
S34
Clamper
Clamper

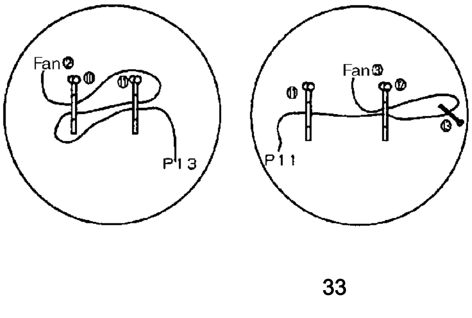
CON : NO —— CON : NO	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭
DBGR —— DGBGR								○						
P4 P41														○
SC1 —— P2									○	○	○	○		
P5 —— D5									○	○				
P7 —— D7									○	○				
SS1 —— P1													○	
SS8 —— P8											○	○	○	
SS27 —— P27													○	
DG17 —— P17							◎			○				
DG6 —— P6							◎			○				
DG4 —— H37 (SS)		○	○	○	○	○								
DG5 —— H37 (SC)		○	○											
SC4 —— P43									○	○	○	○	○	
Fan ① —— P10~P13									○	○	○			
Fan ② —— P10~P13									◎	◎				
Fan ③ —— P10~P13											○	◎	○	
Fan ④ —— P10~P13											○	○	○	

Connector Connection

◎:Wind up second times.

P9, AC inlet, BGR, DG4, DG5, D1, T2, T1, DG1, P6, P8, P17, P7, P5, P1, P2, P27, P26, P43, P4, SS34, C44, P13 P12, P11, P10

Location of Fan Lead Wiring

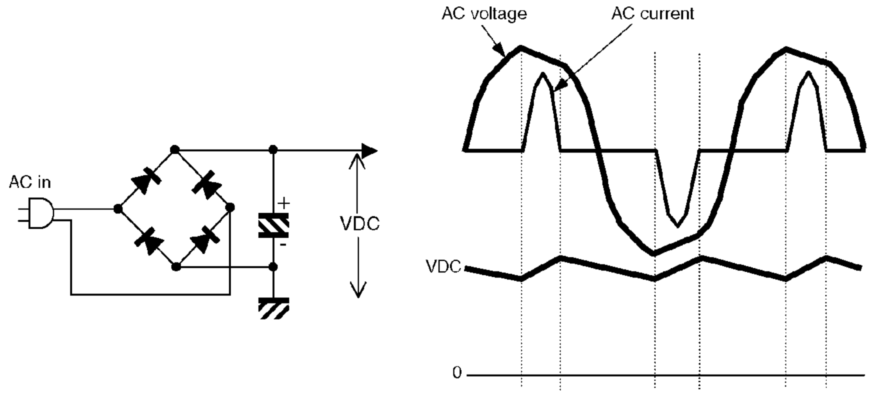

Fan②
⑩
⑪
P13
Fan③
⑪
⑫
⑬
P11

10 Basic Circuit Explanation

10.1. Power Supply Circuit

10.1.1. Power Factor Control (PFC)

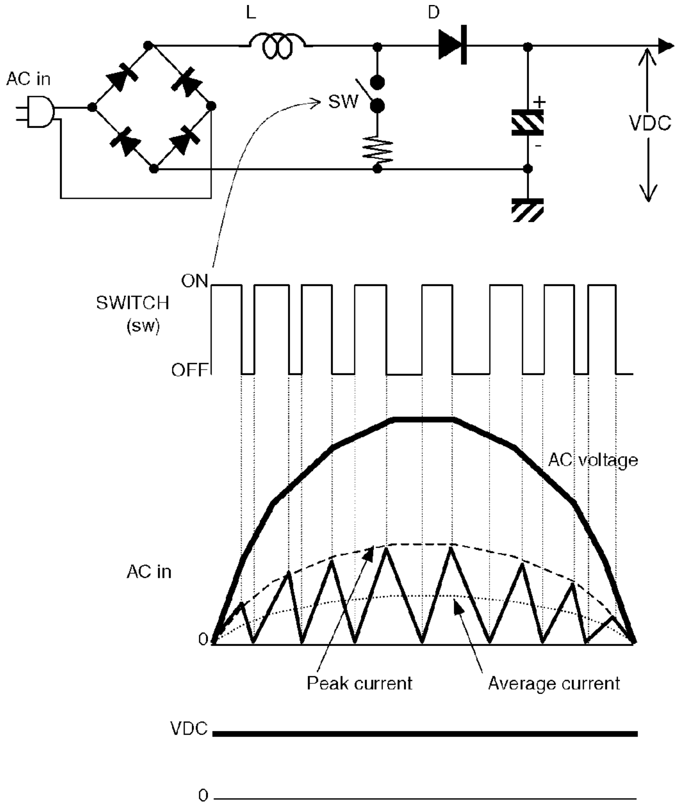
10.1.1.1. Basic operation of the Full wave bridge rectifier


AC in
VDC
AC voltage
AC current
VDC
0

Feature:

1. Power Factor 05~0.7
2. Spick AC current with high frequency component.

10.1.1.2. Power Factor control circuit


L
D
AC in
SW
VDC
SWITCH
(sw)
ON
OFF
AC voltage
AC in
0
Peak current
Average current
VDC
0

Feature:

1. Power Factor More than 0.9
2. Automatic Power Factor Control by OFF period change
3. Lower high frequency noise.

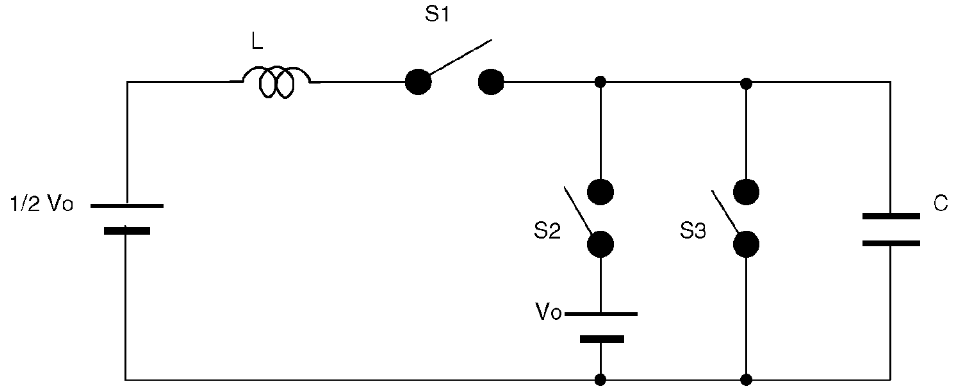
10.2. Energy Recovery Drive Pulse Output

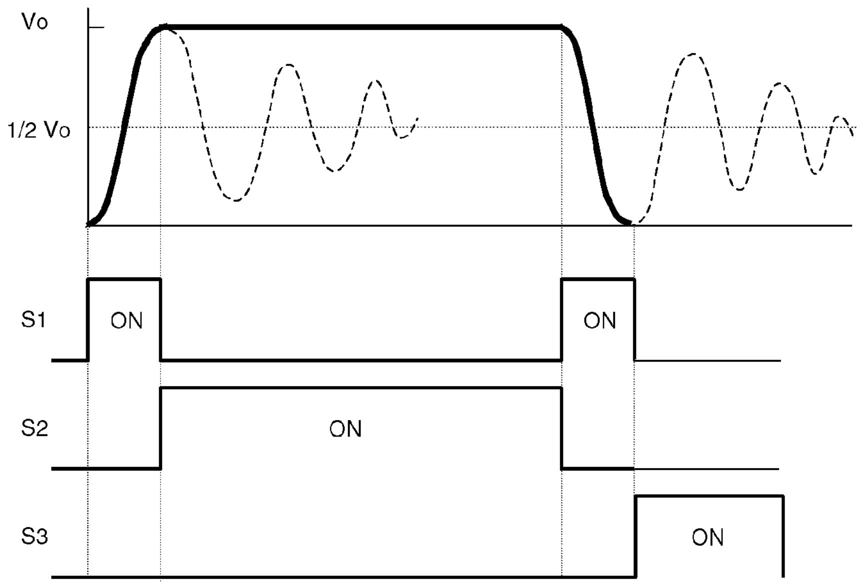
10.2.1. Plasma Panel Energy Loss

When The Sustain, Scan and Data drive pulses are supplied to the plasma panel a lot of energy was lost by resistance of the electrodes lead and many of switching elements. Because plasma panel has the stray capacitance and this capacitance makes high level inrush current during the charge and dischange.
This energy loss becomes high temperature from the plasma panel itself.

10.2.2. Energy Recovery circuit

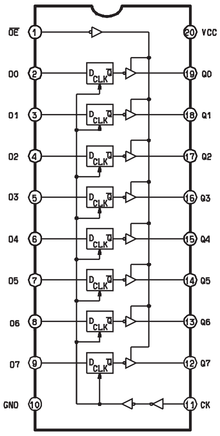
10.2.2.1. Basic operation of the energy recover circuit





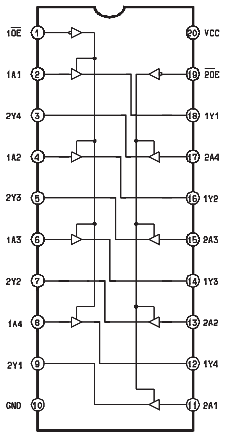
11 IC Block Diagram

C0JBAF000405
TC74LCX574F
(D-TYPE FLIP-FLOP)


$\overline{OE}$ 1
D0 2
D1 3
D2 4
D3 5
D4 6
D5 7
D6 8
D7 9
GND 10
CK 11
Q7 12
Q6 13
Q5 14
Q4 15
Q3 16
Q2 17
Q1 18
Q0 19
VCC 20
D CLK $\overline{Q}$

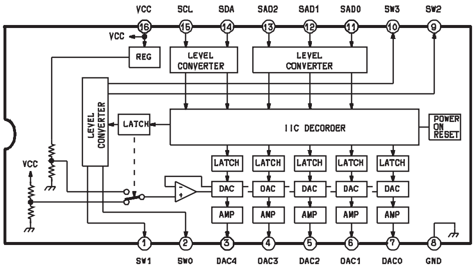
INPUTS			OUTPUTS
$\overline{OE}$	CK	D	
H	X	X	Z
L	L	X	ON
L	L	L	L
L	L	H	H

C0JBAZ001201
TC74HC244AF
(BUS BUFFER)

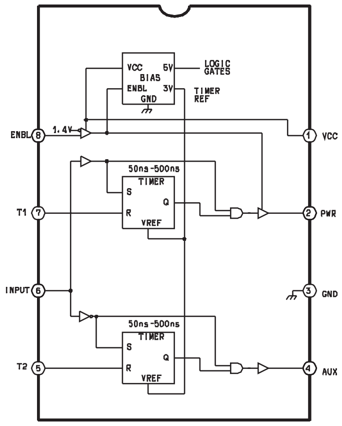

$\overline{1OE}$ 1
1A1 2
2Y4 3
1A2 4
2Y3 5
1A3 6
2Y2 7
1A4 8
2Y1 9
GND 10
2A1 11
1Y4 12
2A2 13
1Y3 14
2A3 15
1Y2 16
2A4 17
1Y1 18
$\overline{2OE}$ 19
VCC 20

INPUTS		OUTPUTS
$\overline{OE}$	An	
L	L	L
L	H	H
H	X	Z

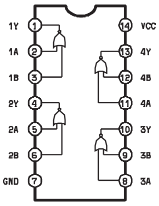
CXA1315M
(IIC-DAC CONVERTER)


VCC 16
SCL 15
SDA 14
SAD2 13
SAD1 12
SAD0 11
SW3 10
SW2 9
VCC
REG
LEVEL CONVERTER
LEVEL CONVERTER
LEVEL CONVERTER
LATCH
IIC DECORDER
POWER ON RESET
LATCH
DAC
AMP
VCC
SW1 1
SW0 2
DAC4 3
DAC3 4
DAC2 5
DAC1 6
DAC0 7
GND 8

UC2715N
(FET DRIVER)

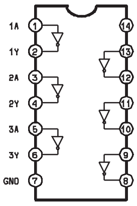

VCC
5V
BIAS
ENBL
3V
GND
LOGIC GATES
TIMER REF
ENBL 8
1.4V
VCC 1
50ns-500ns
TIMER
S
R
Q
VREF
T1 7
PWR 2
INPUT 6
GND 3
T2 5
AUX 4

C0JBAD000080
(QUAD 2-INPUT NOR GATE)


1Y 1
1A 2
1B 3
2Y 4
2A 5
2B 6
GND 7
3A 8
3B 9
3Y 10
4A 11
4B 12
4Y 13
VCC 14

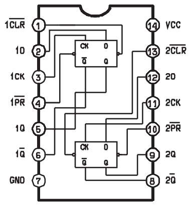
A	B	Y
L	L	H
L	H	L
H	L	L
H	H	L

C0JBAB000155
C0JBAB000226
(HEX SCHMITT INVERTER)


1A 1
1Y 2
2A 3
2Y 4
3A 5
3Y 6
GND 7
4Y 8
4A 9
5Y 10
5A 11
6Y 12
6A 13
VCC 14

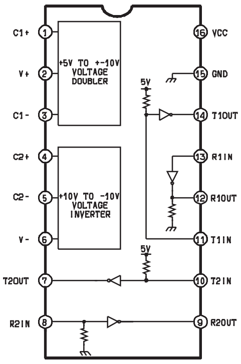
A	Y
L	H
H	L

TC74LCX74F

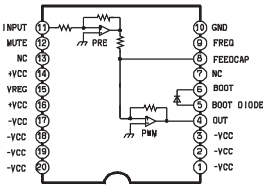

$\overline{1CLR}$ 1
1D 2
1CK 3
$\overline{1PR}$ 4
1Q 5
$1\overline{Q}$ 6
GND 7
$2\overline{Q}$ 8
2Q 9
$\overline{2PR}$ 10
2CK 11
2D 12
$\overline{2CLR}$ 13
VCC 14
CK D $\overline{Q}$ Q

INPUTS				OUTPUTS		NO CHANGE
$\overline{CLR}$	$\overline{PR}$	D	CK	Q	$\overline{Q}$	
L	H	X	X	L	H	CLEAR
H	L	X	X	H	L	PRESET
K	L	X	X	H	H	—
H	H	L	↑	L	H	—
H	H	H	↑	H	L	—
H	H	X	↓	Qn	$\overline{Qn}$	NO CHANGE

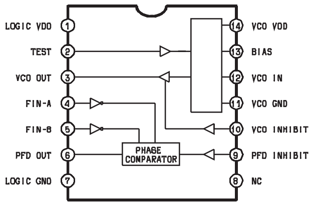
C0ZBZ0000205
(RS232C DRIVER)


C1+ 1
V+ 2
C1- 3
C2+ 4
C2- 5
V- 6
T2OUT 7
R2IN 8
R2OUT 9
T2IN 10
T1IN 11
R1OUT 12
R1IN 13
T1OUT 14
GND 15
VCC 16
+5V TO +-10V VOLTAGE DOUBLER
+10V TO -10V VOLTAGE INVERTER
5V
5V

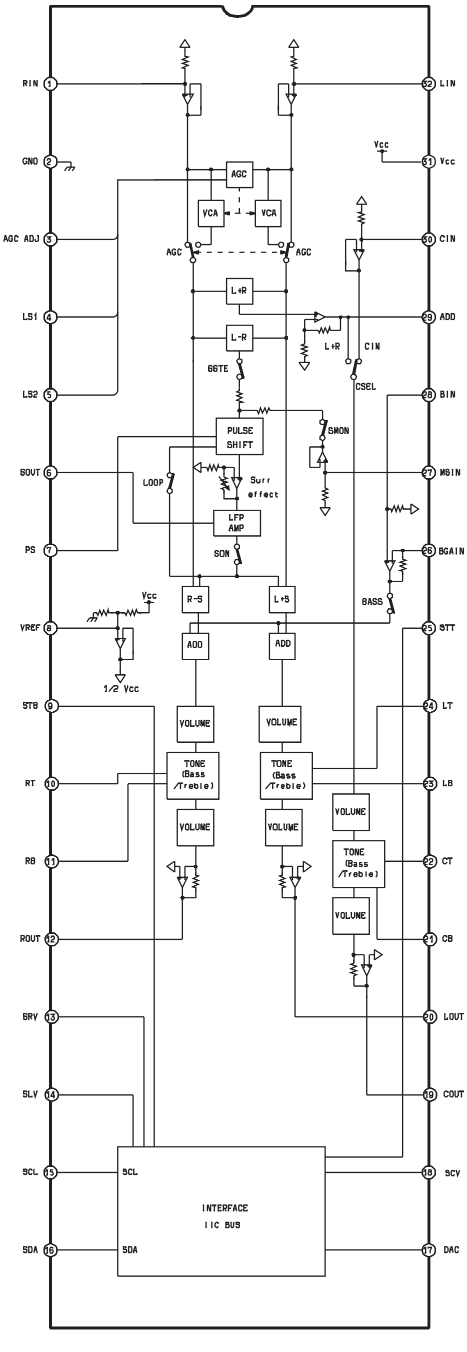
C1AA00000561
(AMPLIFIER)


INPUT 11
MUTE 12
NC 13
+VCC 14
VREG 15
+VCC 16
-VCC 17
-VCC 18
-VCC 19
-VCC 20
GND 10
FREQ 9
FEEDCAP 8
NC 7
BOOT 6
BOOT DIODE 5
OUT 4
-VCC 3
-VCC 2
-VCC 1
PRE
PWM

C0ABFA000012
(HIGH-PERFORMANCE PHASE-LOCKED LOOP)

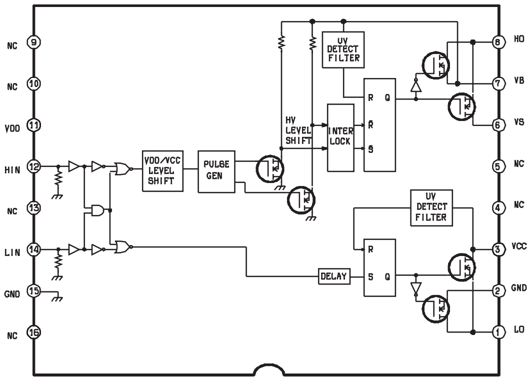

LOGIC VDD 1
TEST 2
VCO OUT 3
FIN-A 4
FIN-B 5
PFD OUT 6
LOGIC GND 7
NC 8
PFD INHIBIT 9
VCO INHIBIT 10
VCO GND 11
VCO IN 12
BIAS 13
VCO VDD 14
PHASE COMPARATOR

BH3866S
(AUDIO AMP)


RIN 1
GND 2
AGC ADJ 3
LS1 4
LS2 5
SOUT 6
PS 7
VREF 8
STB 9
RT 10
RS 11
ROUT 12
SRV 13
SLV 14
SCL 15
SDA 16
DAC 17
SCV 18
COUT 19
LOUT 20
CB 21
CT 22
LB 23
LT 24
STT 25
BGAIN 26
MSIN 27
BIN 28
ADD 29
CIN 30
Vcc 31
LIN 32
Vcc
AGC
VCA
VCA
AGC
AGC
L+R
L-R
L+R
CIN
SSTE
CSEL
PULSE SHIFT
SMON
Surr effect
LOOP
LFP AMP
SON
R-S
L+S
BASS
Vcc
1/2 Vcc
ADD
ADD
VOLUME
VOLUME
TONE (Bass /Treble)
TONE (Bass /Treble)
VOLUME
VOLUME
VOLUME
TONE (Bass /Treble)
VOLUME
SCL
INTERFACE
IIC BUS
SDA

PIN NO.	SYMBOL	FUNCTION	PIN NO.	SYMBOL	FUNCTION
1	RIN	R CH INPUT	17	DAC	EX. DAC
2	GND	GND	18	SCV	VOL C CH SHOCK
3	AGC ADJ	AGC 0dB ADJ	19	COUT	C CH OUT
4	LS1	AGC LEVEL SENSOR1	20	LOUT	L CH OUT
5	LS2	AGC LEVEL SENSOR2	21	CB	C CH BASS FC
6	SOUT	S CH OUT AND LPF	22	CT	C CH TREBLE FC
7	PS	PHASE SHIFT	23	LB	L CH BASS FC
8	VREF	1/2 VCC	24	LT	L CH TREBLE
9	STB	BASS SHOCK	25	STT	TREBLE SHOCK
10	RT	R CH TREBLE FC	26	BGAIN	BASS MIX GAIN
11	RS	R CH BASS FC	27	MSIN	MONO SURR IN
12	ROUT	R CH OUT	28	BIN	BASS DET LPF AMP
13	SRV	VOL R CH SHOCK	29	ADD	AGC L+R OUT
14	SLV	VOL L CH SHOCK	30	CIN	C CH INPUT
15	SCL	SERIAL CLOCK	31	VCC	9V
16	SDA	SERIAL DATA	32	LIN	L CH INPUT

C0ZBZ0000138
(HALF BRIGE DRIVER)

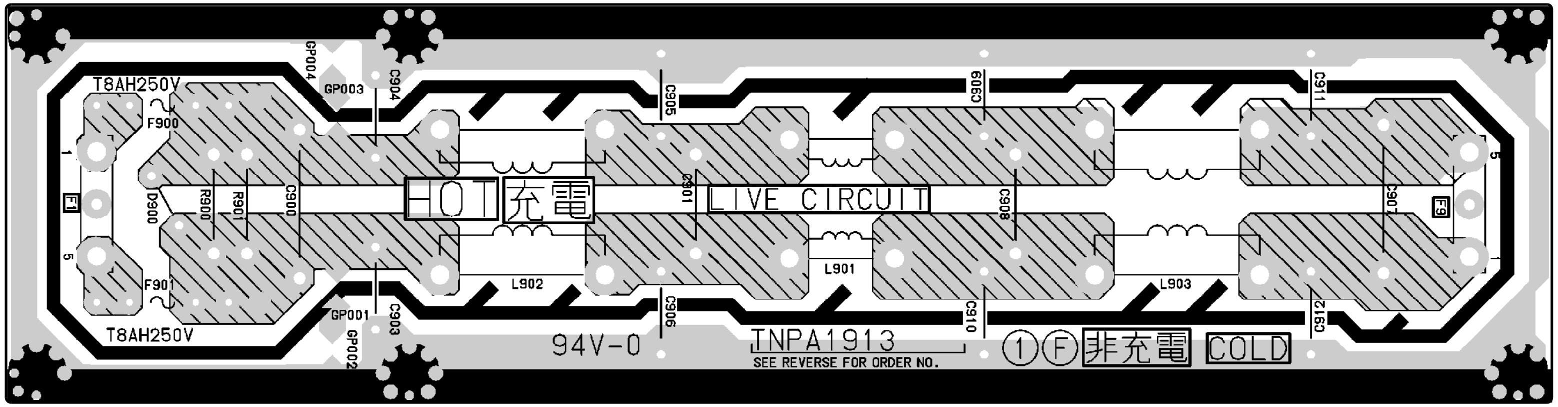

NC 9
NC 10
VDD 11
HIN 12
NC 13
LIN 14
GND 15
NC 16
HO 8
VB 7
VS 6
NC 5
NC 4
VCC 3
GND 2
LO 1
UV DETECT FILTER
R Q
R
S
HV LEVEL SHIFT
INTER LOCK
VDD/VCC LEVEL SHIFT
PULSE GEN
UV DETECT FILTER
R
S Q
DELAY

HIN	LIN	VBS UV	VCC UV	HO	LO	REMARK
0	0	0	0	0	0	NORMAL OFF
0	1	0	0	0	1	LO ON
1	0	0	0	1	0	HO ON
1	1	0	0	0	0	LIN,HIN:H LO,HO OFF
X	0	1	0	0	0	VBS UV CUT LO OFF
X	1	1	0	0	1	VBS UV CUT LO ON
0	X	0	1	0	0	VCC UV CUT HO OFF
1	X	0	1	1	0	VCC UV CUT HO ON

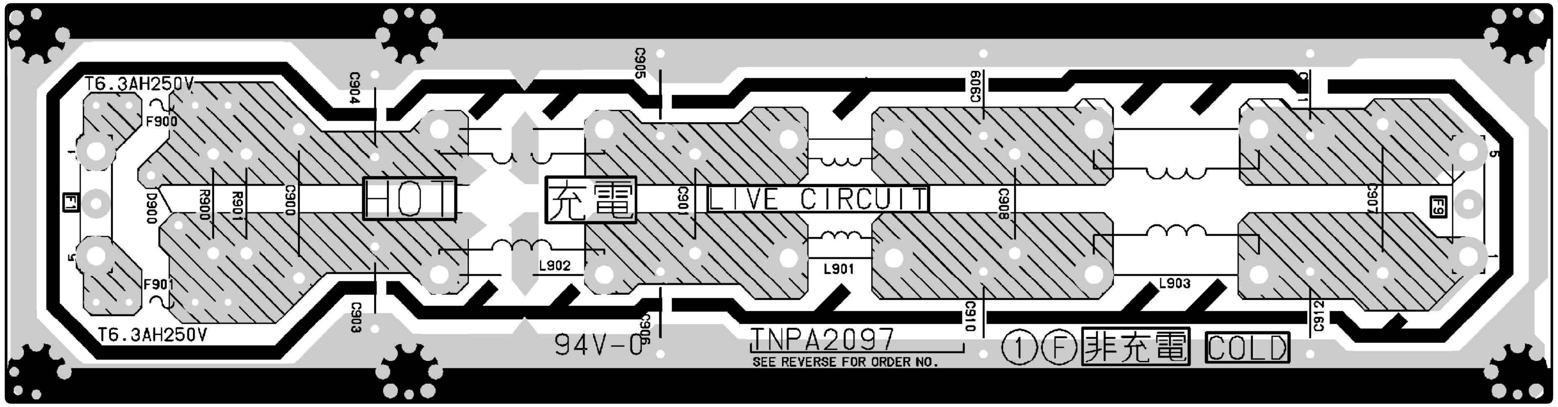
12 Conductor Views

12.1. F-Board

F-BOARD (FOIL SIDE)
TXN/F10L32 (U Version)

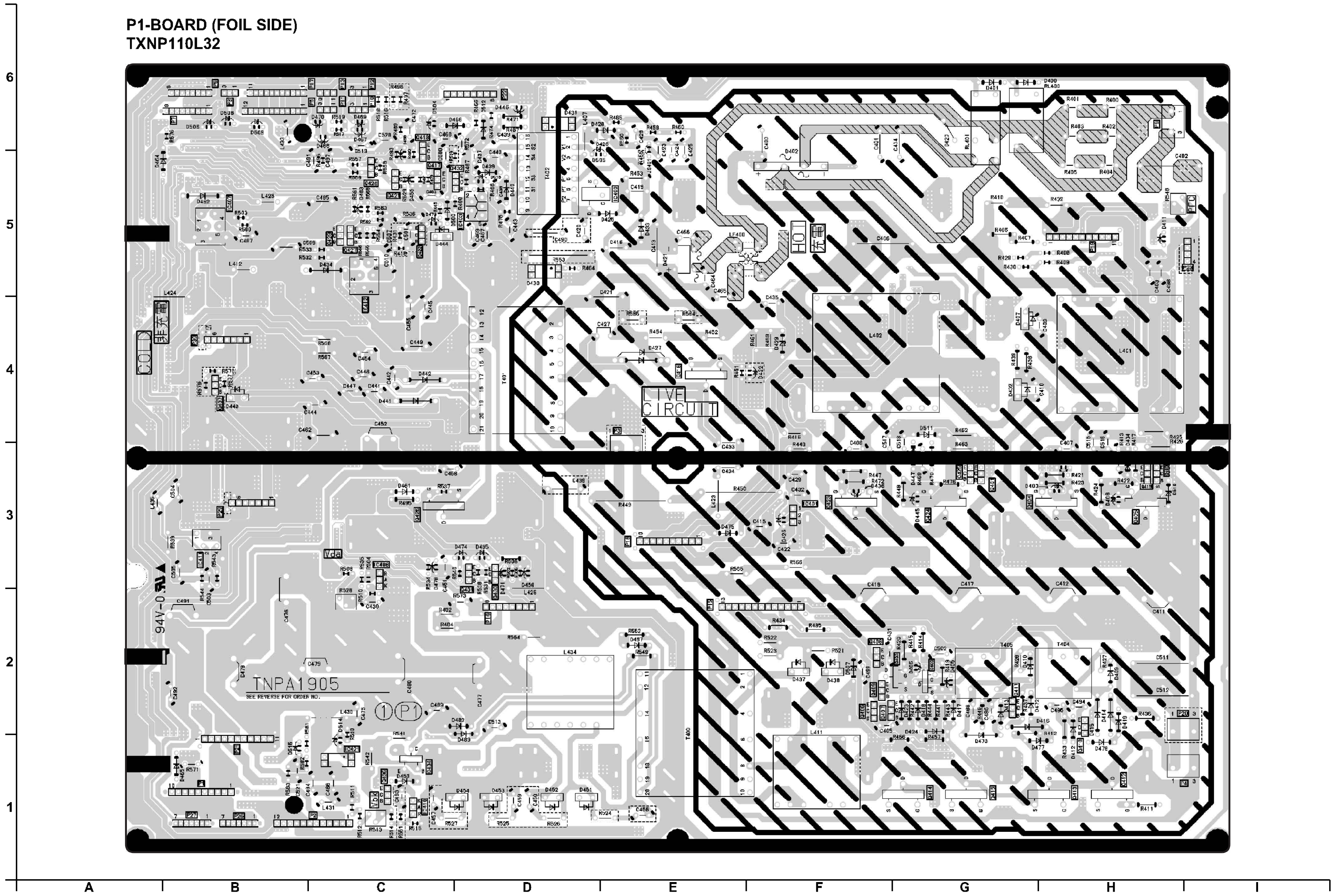

T8AH250V
F900
F1
1
5
D900
R900
R901
C900
GP004
GP003
C904
GP001
GP002
C903
F901
T8AH250V
HOT
充電
L902
C905
C901
C906
LIVE CIRCUIT
L901
94V-0
TNPA1913
SEE REVERSE FOR ORDER NO.
C909
C908
C910
①Ⓕ非充電
L903
COLD
C911
C907
C912
F9
5
1

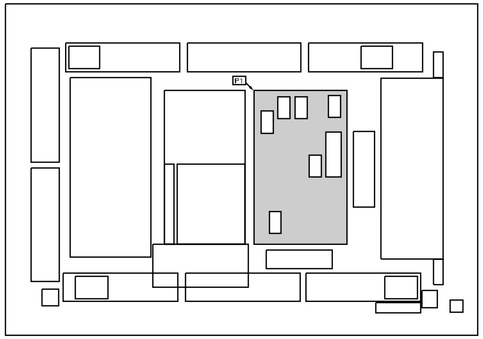
F-BOARD (FOIL SIDE)
TXN/F10HAS (A,B,and E Version)


T6.3AH250V
F900
F1
D900
R900
R901
C900
C904
C903
F901
T6.3AH250V
HOT
充電
L902
C905
C901
C906
LIVE CIRCUIT
L901
94V-0
TNPA2097
SEE REVERSE FOR ORDER NO.
C909
C908
C910
①Ⓕ非充電
L903
COLD
C911
C907
C912
F9
5
1
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I

12.2. P1-Board

P1-BOARD (FOIL SIDE)
TXNP110L32


6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
LIVE CIRCUIT
HOT
COLD
TNPA1905
SEE REVERSE FOR ORDER NO.
①P1
94V-0
T400
T401
T402
T404
T405
L401
L402
L411
L434



PARTS LOCATION

P1-BOARD (FOIL SIDE)	
IC	
IC406	C-3
IC407	B-5
IC410	C-1
IC411	B-3
IC412	C-4
IC421	C-1
TARNSISTOR	
Q401	G-3
Q402	G-2
Q403	G-2
Q404	G-3
Q405	H-3
Q406	F-2
Q407	F-2
Q408	F-2
Q409	F-2
Q410	H-1
Q411	G-2
Q412	H-1
Q413	H-1
Q414	G-1
Q415	G-1
Q416	E-4
Q417	C-5
Q418	C-6
Q419	H-3
Q422	C-5
Q423	F-3
Q424	G-3
Q425	G-3
Q426	C-3
Q427	C-5
Q428	C-5
Q429	C-5
Q430	D-2
Q431	D-2
Q432	C-5
Q434	C-1
Q436	C-1
Q437	B-4

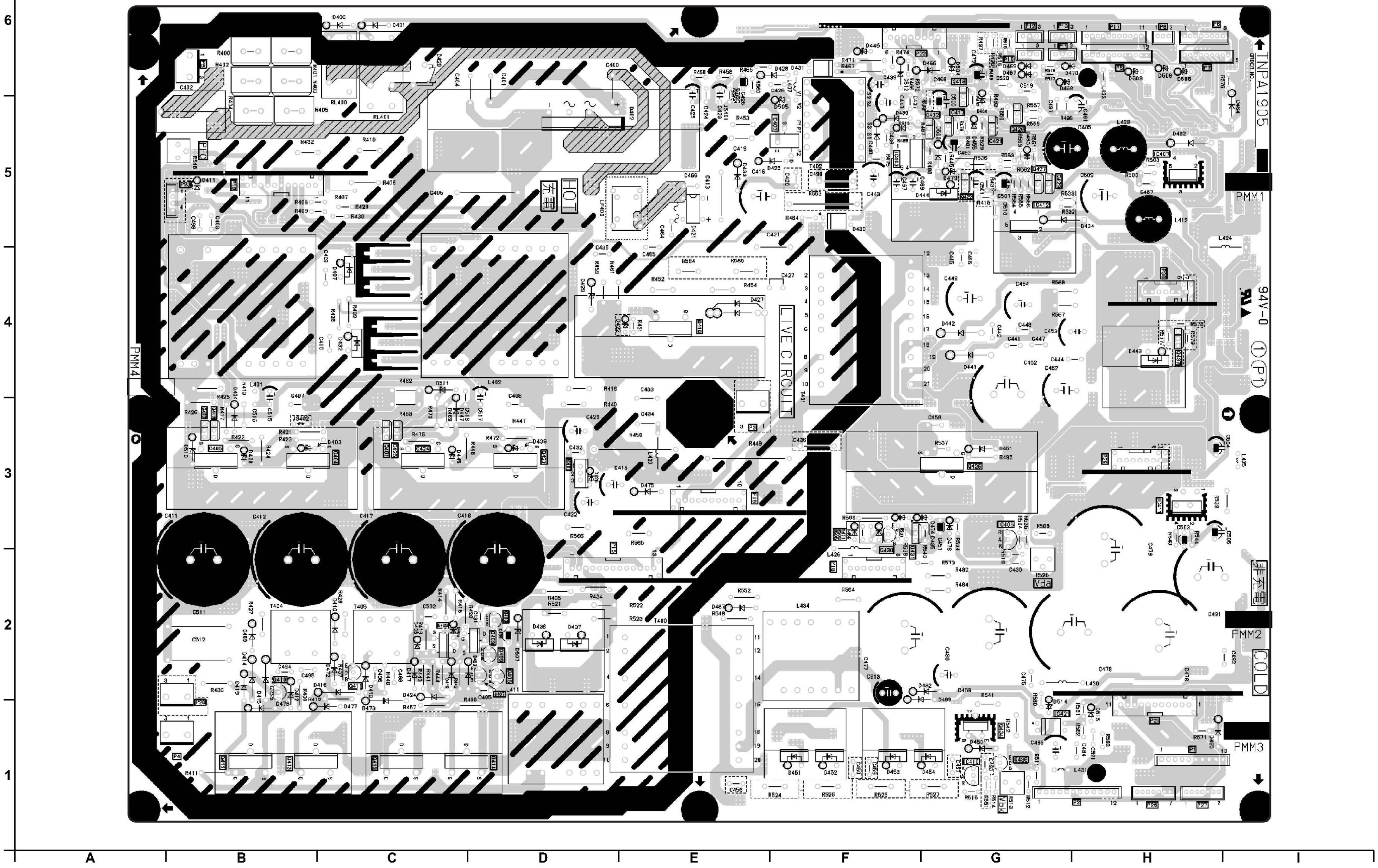
ADDRESS INFORMATION

PARTS LOCATION

P1-BOARD (COMPONENT SIDE)	
IC	
IC406	G-3
IC407	H-5
IC410	G-1
IC411	H-3
IC412	G-5
IC421	G-1
TRANSISTOR	
Q400	B-3
Q401	C-3
Q402	C-2
Q403	D-2
Q404	C-3
Q405	B-3
Q406	D-2
Q407	D-2
Q408	D-2
Q409	D-2
Q410	B-2
Q411	C-2
Q412	B-1
Q413	B-1
Q414	D-1
Q415	C-1
Q416	D-4
Q417	G-5
Q418	B-3
Q418	G-6
Q421	G-5
Q422	G-5
Q423	D-3
Q424	C-3
Q425	C-3
Q426	G-3
Q427	G-5
Q428	G-5
Q429	G-5
Q430	F-3
Q431	F-3
Q432	G-5
Q434	G-1
Q436	G-1
Q437	H-4

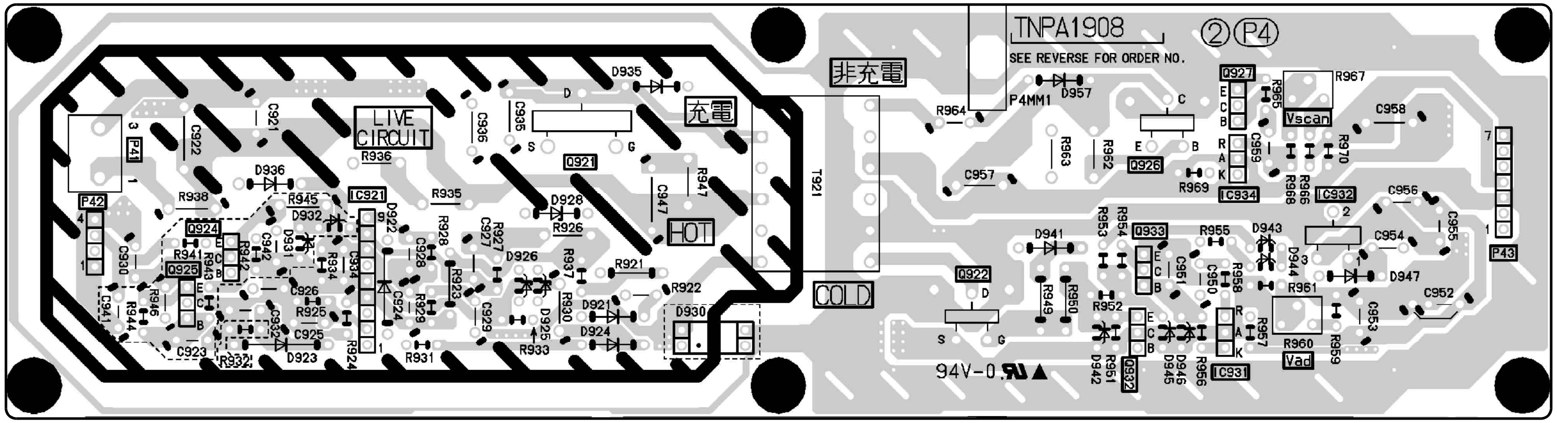
ADDRESS INFORMATION

P1-BOARD (COMPONENT SIDE)
TXNP110L32

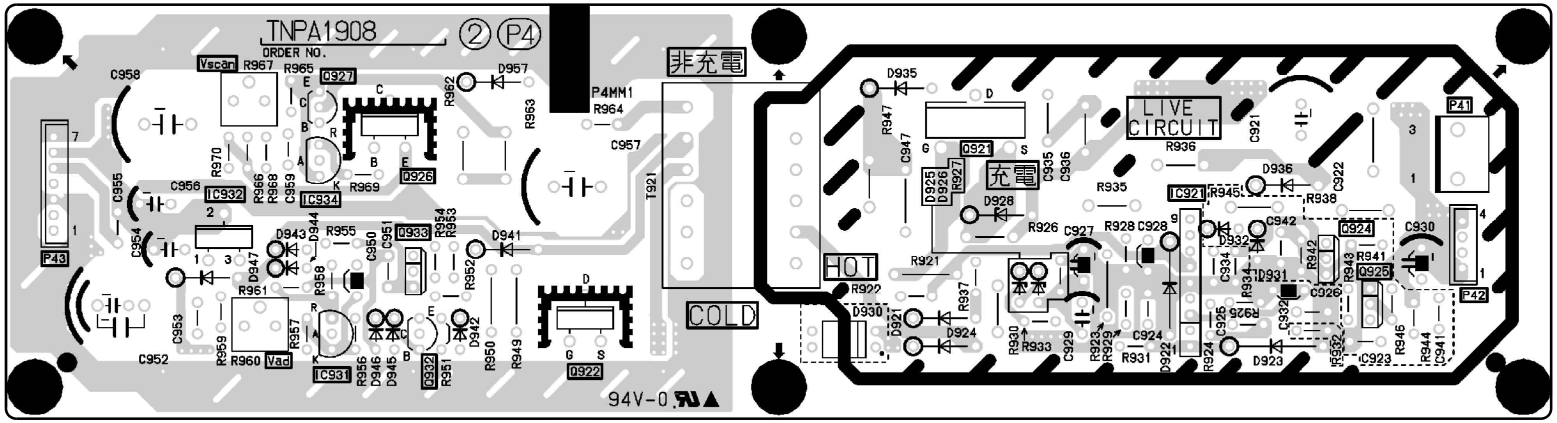

TNPA1905
ORDER NO.
94V-0
①(P1)
PMM1
PMM2
PMM3
PMM4
非充電
COLD
HOT
充電
LIVE CIRCUIT
Vda
Vbk
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I

12.3. P4-Board

P4-BOARD (FOIL SIDE)
TNPA1908


TNPA1908
SEE REVERSE FOR ORDER NO.
②P4
非充電
充電
LIVE CIRCUIT
HOT
COLD
T921
P41
P42
P43
P4MM1
Vscan
Vad
94V-0

P4-BOARD (COMPONENT SIDE)
TNPA1908


TNPA1908
ORDER NO.
②P4
非充電
充電
LIVE CIRCUIT
HOT
COLD
T921
P41
P42
P43
P4MM1
Vscan
Vad
94V-0

6
5
4
3
2
1
A
B
C
D
E
F
G
H
I

PARTS LOCATION

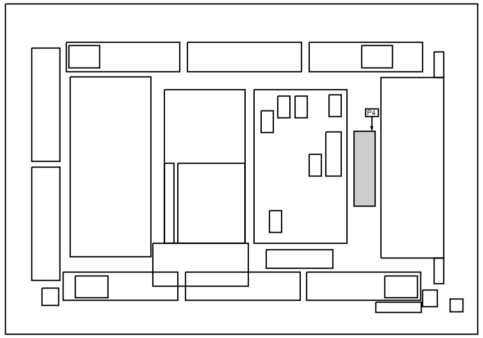
P4-BOARD (FOIL SIDE)	
IC	
IC921	C-4
IC931	G-4
IC932	H-5
IC934	G-5
TRNSISTOR	
Q921	D-5
Q922	F-4
Q924	B-5
Q925	B-4
Q926	G-5
Q927	G-5
Q932	G-4
Q933	G-5

ADDRESS INFORMATION

PARTS LOCATION

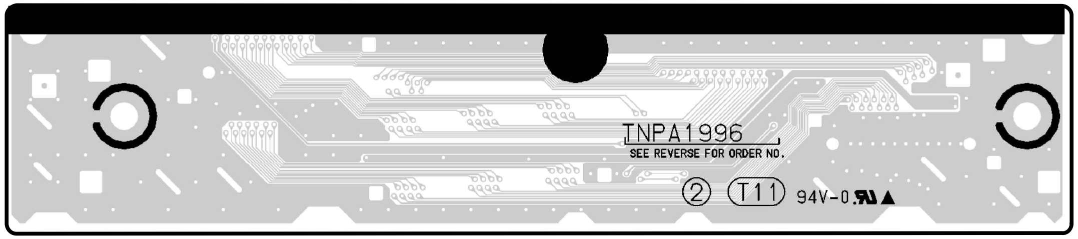
P4-BOARD (COMPONENT SIDE)	
IC	
IC921	G-2
IC931	C-1
IC932	B-2
IC934	C-2
TRANSISTOR	
Q921	F-2
Q922	D-1
Q924	H-2
Q925	H-2
Q926	C-2
Q927	C-3
Q932	C-1
Q933	C-2

ADDRESS INFORMATION

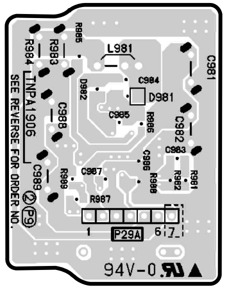


12.4. P3, P5, P6, P7, P8, P9 and T11-Board

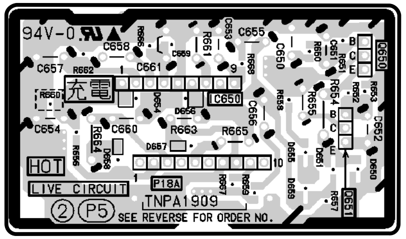
T11-BOARD (FOIL SIDE)
TNPA1996


TNPA1996
SEE REVERSE FOR ORDER NO.
② T11 94V-0

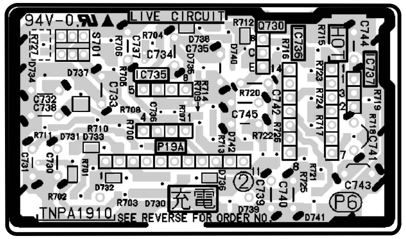
P9-BOARD (FOIL SIDE)
TNPA1906


TNPA1906
SEE REVERSE FOR ORDER NO.
② P9
P29A
94V-0
L981
D981
C981
C982
C983
C984
C985
C986
C987
C988
C989
D982
R981
R982
R983
R984
R985
R986
R987
R988
R989

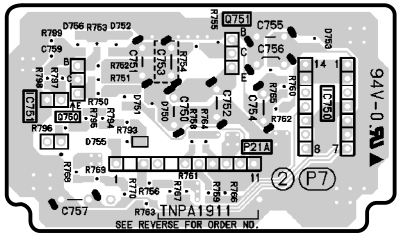
P5-BOARD (FOIL SIDE)
TNPA1909


94V-0
HOT
LIVE CIRCUIT
TNPA1909
② P5
SEE REVERSE FOR ORDER NO.
充電
P18A
IC650
Q650
Q651
C650
C654
C655
C656
C657
C658
C660
C661
R661
R663
R664
R665

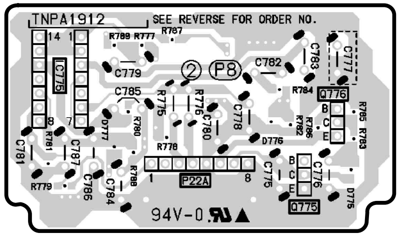
P6-BOARD (FOIL SIDE)
TNPA1910

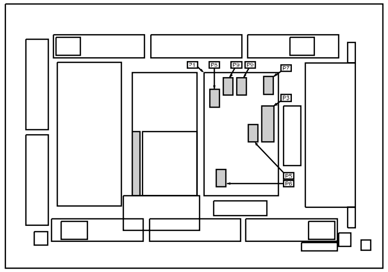

94V-0
LIVE CIRCUIT
HOT
TNPA1910
SEE REVERSE FOR ORDER NO.
充電
② P6
S701
IC735
IC736
IC737
P19A
Q730
C733
C734
C739
C740
C741
C742
C743
C744
C745

P7-BOARD (FOIL SIDE)
TNPA1911

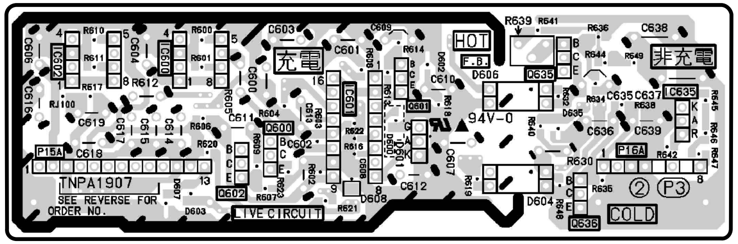

TNPA1911
SEE REVERSE FOR ORDER NO.
94V-0
② P7
IC750
IC751
Q750
Q751
P21A
C750
C752
C754
C755
C756
C757

P8-BOARD (FOIL SIDE)
TNPA1912


TNPA1912
SEE REVERSE FOR ORDER NO.
② P8
94V-0
IC775
Q775
Q776
P22A
C779
C782
C785
R775
R776
C780

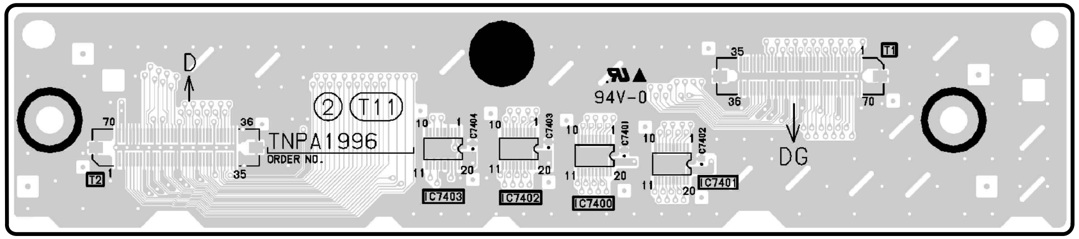


P3-BOARD (FOIL SIDE)
TNPA1907

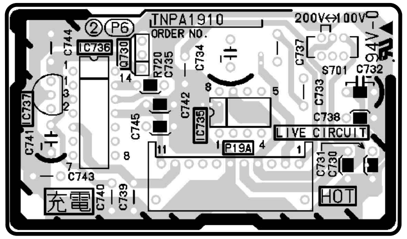

HOT
F.B.
非充電
充電
TNPA1907
SEE REVERSE FOR ORDER NO.
LIVE CIRCUIT
94V-0
② P3
COLD
IC600
IC601
IC602
IC635
Q600
Q601
Q602
Q635
Q636
P15A
P16A
D604
D606
D608
C601
C603
C604
C606
C612
C616
C618
C619
C635
C636
C637
C638
C639
R612
R630
R639

1
2
3
4
5
6
A
B
C
D
E
F
G
H
I

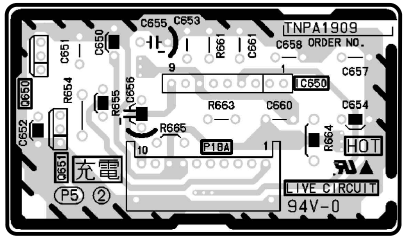
T11-BOARD (COMPONENT SIDE)
TNPA1996


TNPA1996
ORDER NO.
② T11
D
DG
94V-0
T1
T2
IC7400
IC7401
IC7402
IC7403
C7401
C7402
C7403
C7404
1
10
11
20
35
36
70

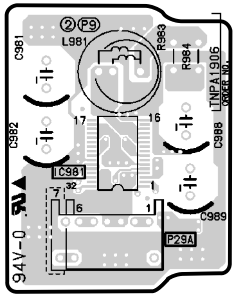
P6-BOARD (COMPONENT SIDE)
TNPA1910


TNPA1910
ORDER NO.
② P6
200V↔100V
94V-0
S701
C732
C733
C734
C735
C736
C737
C738
C739
C740
C741
C742
C743
C744
C745
C730
C731
R720
Q730
IC735
IC737
P19A
LIVE CIRCUIT
HOT
充電

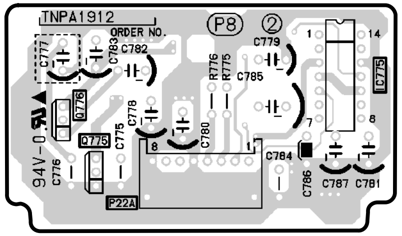
P5-BOARD (COMPONENT SIDE)
TNPA1909


TNPA1909
ORDER NO.
C655
C653
C651
C650
C652
C654
C656
C657
C658
C660
C661
R654
R655
R661
R663
R664
R665
Q650
Q651
IC650
P18A
充電
P5 ②
HOT
LIVE CIRCUIT
94V-0

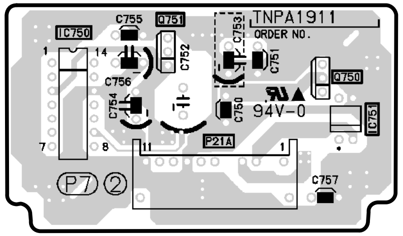
P9-BOARD (COMPONENT SIDE)
TNPA1906


② P9
TNPA1906
ORDER NO.
C981
C982
C988
C989
L981
R983
R984
IC981
P29A
94V-0
1
6
7
16
17
32

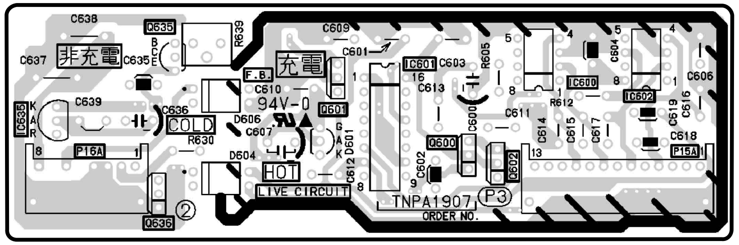
P8-BOARD (COMPONENT SIDE)
TNPA1912

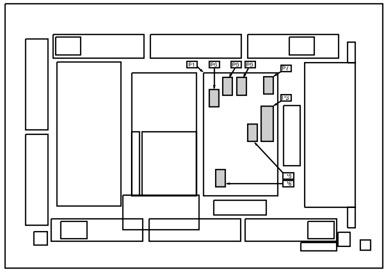

TNPA1912
ORDER NO.
P8 ②
C777
C782
C783
C779
C785
R776
R775
C776
C775
C778
C780
C784
C786
C787
C781
Q776
Q775
IC775
P22A
94V-0

P7-BOARD (COMPONENT SIDE)
TNPA1911


TNPA1911
ORDER NO.
C755
Q751
C753
C751
C752
C756
C754
C750
C757
IC750
IC751
Q750
P21A
94V-0
P7 ②

P3-BOARD (COMPONENT SIDE)
TNPA1907


C638
Q635
R639
C609
C601
IC601
C603
R605
C604
C606
C637
非充電
C635
充電
F.B.
C610
94V-0
C613
IC600
R612
IC602
C619
C616
C639
C636
COLD
R630
D606
C607
Q601
D601
C600
C611
C614
C615
C617
C618
IC635
P16A
D604
HOT
LIVE CIRCUIT
C612
C602
Q600
Q602
P15A1
TNPA1907 P3
ORDER NO.
Q636
②

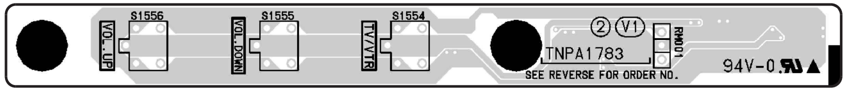


A B C D E F G H I

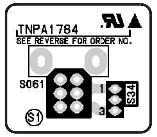
1 2 3 4 5 6

12.5. H, H3, S1 and V1-Board

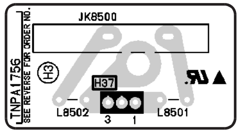
V1-BOARD (FOIL SIDE)
TNPA1783


S1556
VOL.UP
S1555
VOL.DOWN
S1554
TV/VTR
② V1
TNPA1783
SEE REVERSE FOR ORDER NO.
RM001
94V-0

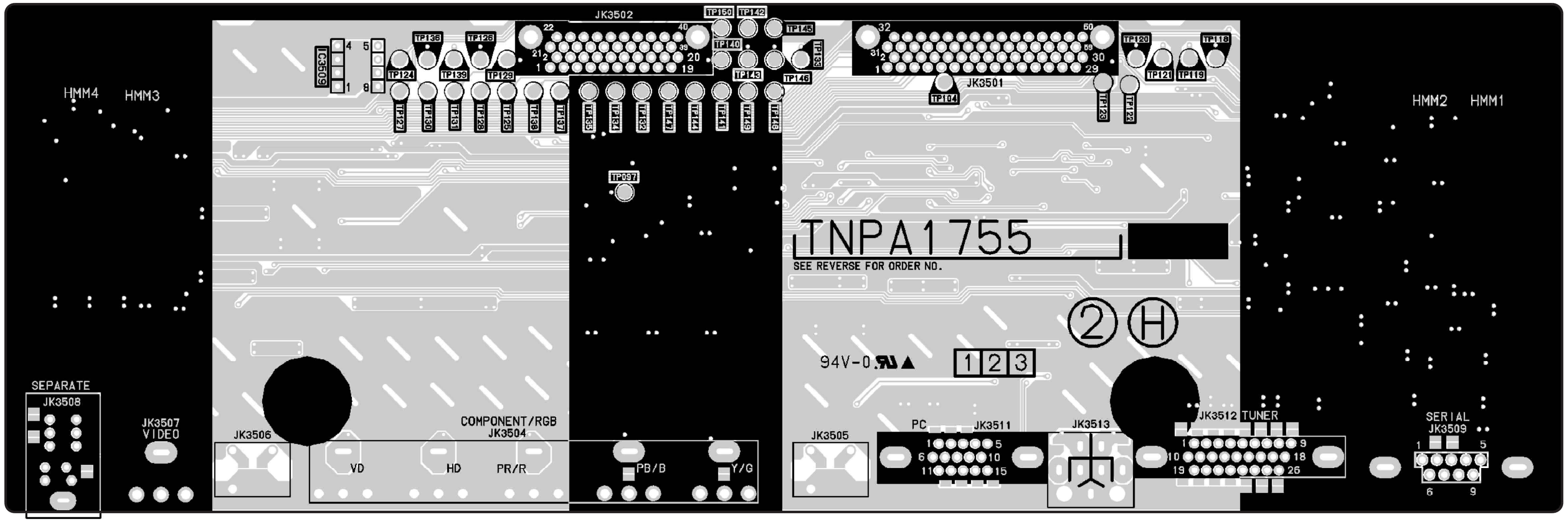
S1-BOARD
TNPA1784

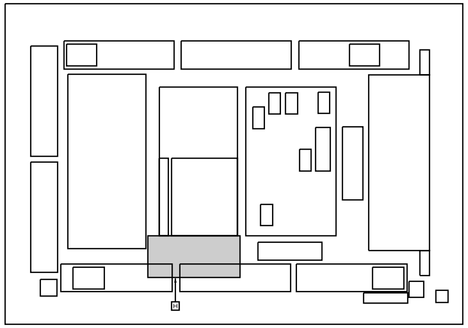

TNPA1784
SEE REVERSE FOR ORDER NO.
S061
S34
1
3
S1

H3-BOARD
TNPA1756AB


TNPA1756
SEE REVERSE FOR ORDER NO.
JK8500
H3
H37
L8502
L8501
3
1

H-BOARD (FOIL SIDE)
TNPA1755


HMM4
HMM3
HMM2
HMM1
IC3509
JK3502
JK3501
TP124
TP136
TP139
TP126
TP129
TP127
TP130
TP131
TP128
TP125
TP138
TP137
TP135
TP134
TP132
TP147
TP144
TP141
TP149
TP148
TP150
TP142
TP140
TP145
TP143
TP146
TP133
TP104
TP120
TP121
TP119
TP118
TP122
TP123
TP097
TNPA1755
SEE REVERSE FOR ORDER NO.
② H
94V-0
1 2 3
SEPARATE
JK3508
JK3507
VIDEO
JK3506
COMPONENT/RGB
JK3504
VD
HD
PR/R
PB/B
Y/G
JK3505
PC
JK3511
JK3513
JK3512 TUNER
SERIAL
JK3509
6
1
2
3
4
5
A
B
C
D
E
F
G
H
I



PARTS LOCATION

H-BOARD (FOIL SIDE)

IC	
IC3509	C-4
TEST POINT	
TP097	D-3
TP104	F-3
TP118	G-4
TP119	G-4
TP120	G-4
TP121	G-4
TP122	G-3
TP123	G-3
TP124	C-4
TP125	D-3
TP126	C-4
TP127	C-3
TP128	C-3
TP129	C-4
TP130	C-3
TP131	C-3
TP132	D-3
TP133	E-4
TP134	D-3
TP135	D-3
TP136	C-4
TP137	D-3
TP138	D-3
TP139	C-4
TP140	E-4
TP141	E-3
TP142	E-4
TP143	E-4
TP144	D-3
TP145	E-4
TP146	E-4
TP147	D-3
TP148	E-3
TP149	E-3
TP150	E-4

ADDRESS INFORMATION

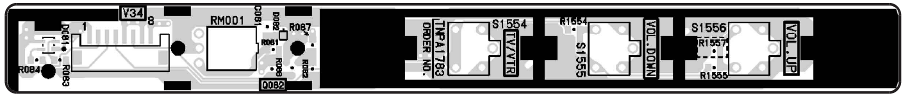
PARTS LOCATION

H-BOARD (COMPONENT SIDE)

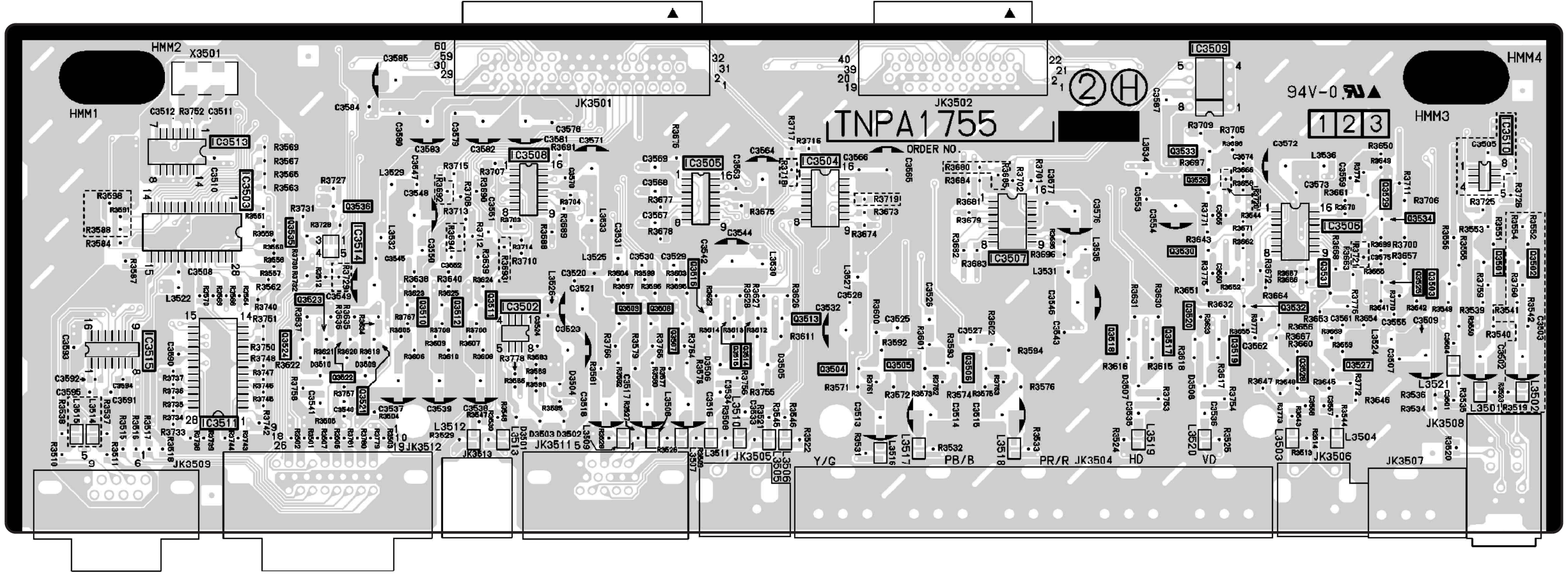
IC	
IC3502	D-2
IC3503	B-3
IC3504	E-3
IC3505	E-3
IC3506	H-3
IC3507	F-3
IC3508	D-3
IC3509	G-4
IC3510	I-3
IC3511	B-2
IC3513	B-3
IC3514	C-3
IC3515	B-2
TRNSISTOR	
Q3501	I-3
Q3502	I-3
Q3503	H-3
Q3504	E-2
Q3505	F-2
Q3506	F-2
Q3507	D-2
Q3508	D-2
Q3509	D-2
Q3510	C-2
Q3511	C-2
Q3512	C-2
Q3513	E-2
Q3514	E-2
Q3515	E-2
Q3517	G-2
Q3518	G-2
Q3519	G-2
Q3520	G-2
Q3521	C-2
Q3522	C-2
Q3523	C-2
Q3524	B-2
Q3525	H-3
Q3526	G-3
Q3527	H-2
Q3528	H-2
Q3529	H-3
Q3530	G-3
Q3531	H-3
Q3532	H-2
Q3533	G-3
Q3534	H-3
Q3535	B-3
Q3536	C-3

ADDRESS INFORMATION

V1-BOARD (COMPONENT SIDE)
TNPA1783


V34
RM001
S1554
TV/VTR
TNPA1783
ORDER NO.
S1555
VOL. DOWN
S1556
VOL. UP
R1554
R1555
R1557
D081
D082
C081
R081
R082
R083
R084
R087
R088

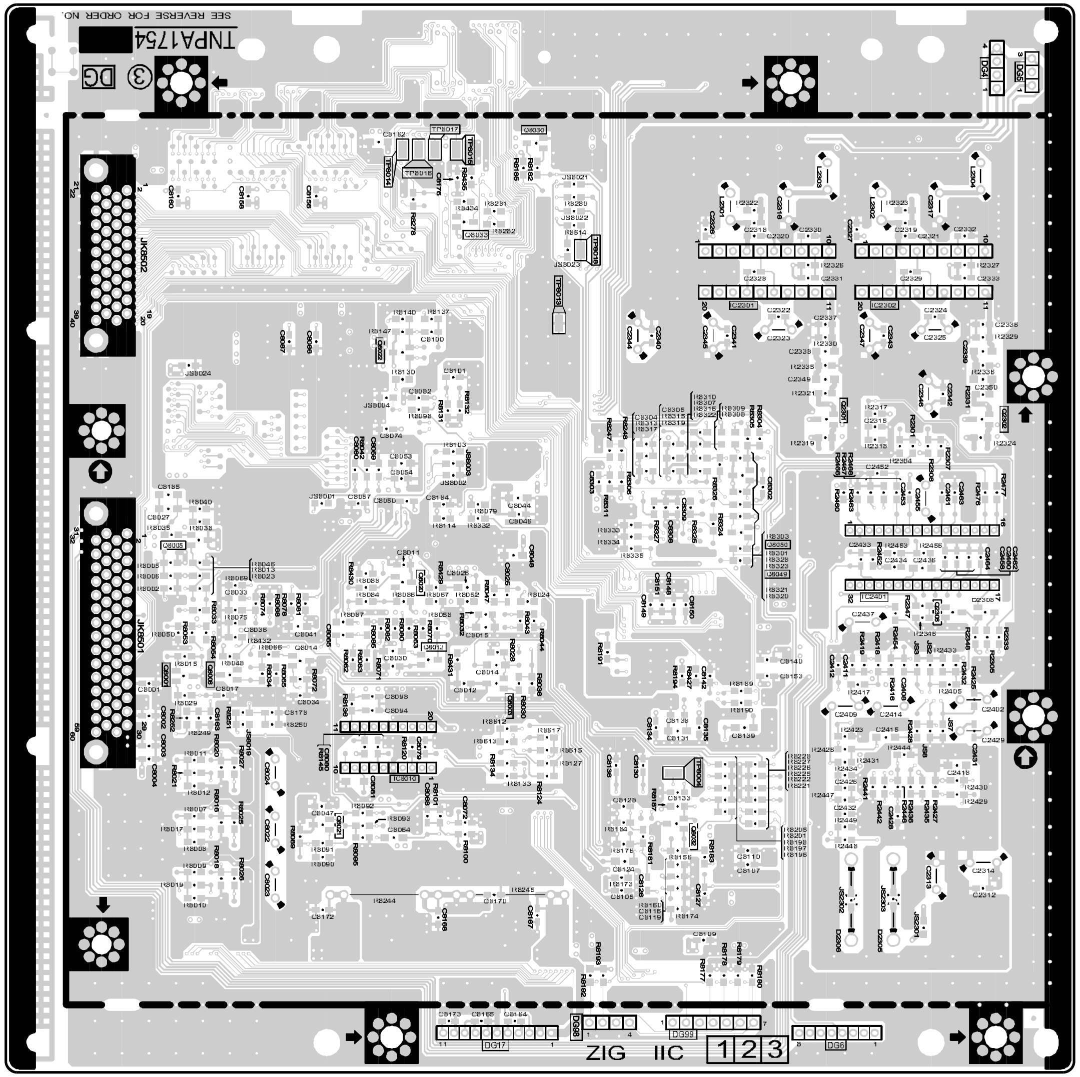
H-BOARD (COMPONENT SIDE)
TNPA1755

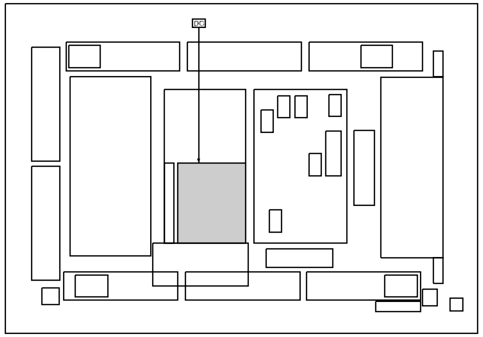

HMM1
HMM2
HMM3
HMM4
X3501
JK3501
JK3502
TNPA1755
ORDER NO.
94V-0
1 2 3
IC3503
IC3504
IC3505
IC3506
IC3507
IC3508
IC3509
IC3510
IC3511
IC3513
IC3514
IC3515
JK3503
JK3504
JK3505
JK3506
JK3507
JK3508
JK3509
JK3511
JK3512
JK3513
Y/G
PB/B
PR/R
HD
VD

6
5
4
3
2
1
A
B
C
D
E
F
G
H
I

12.6. DG-Board

DG-BOARD (FOIL SIDE)
TXNDG10L33


SEE REVERSE FOR ORDER NO.
TNPA1754
③
DG
DG4
DG5
JK8502
JK8501
IC2301
IC2302
IC2401
IC8010
TP8004
TP8013
TP8014
TP8015
TP8016
TP8018
DG17
DG98
DG99
DG6
ZIG
IIC
1 2 3
A
B
C
D
E
F
G
H
I
1
2
3
4
5
6

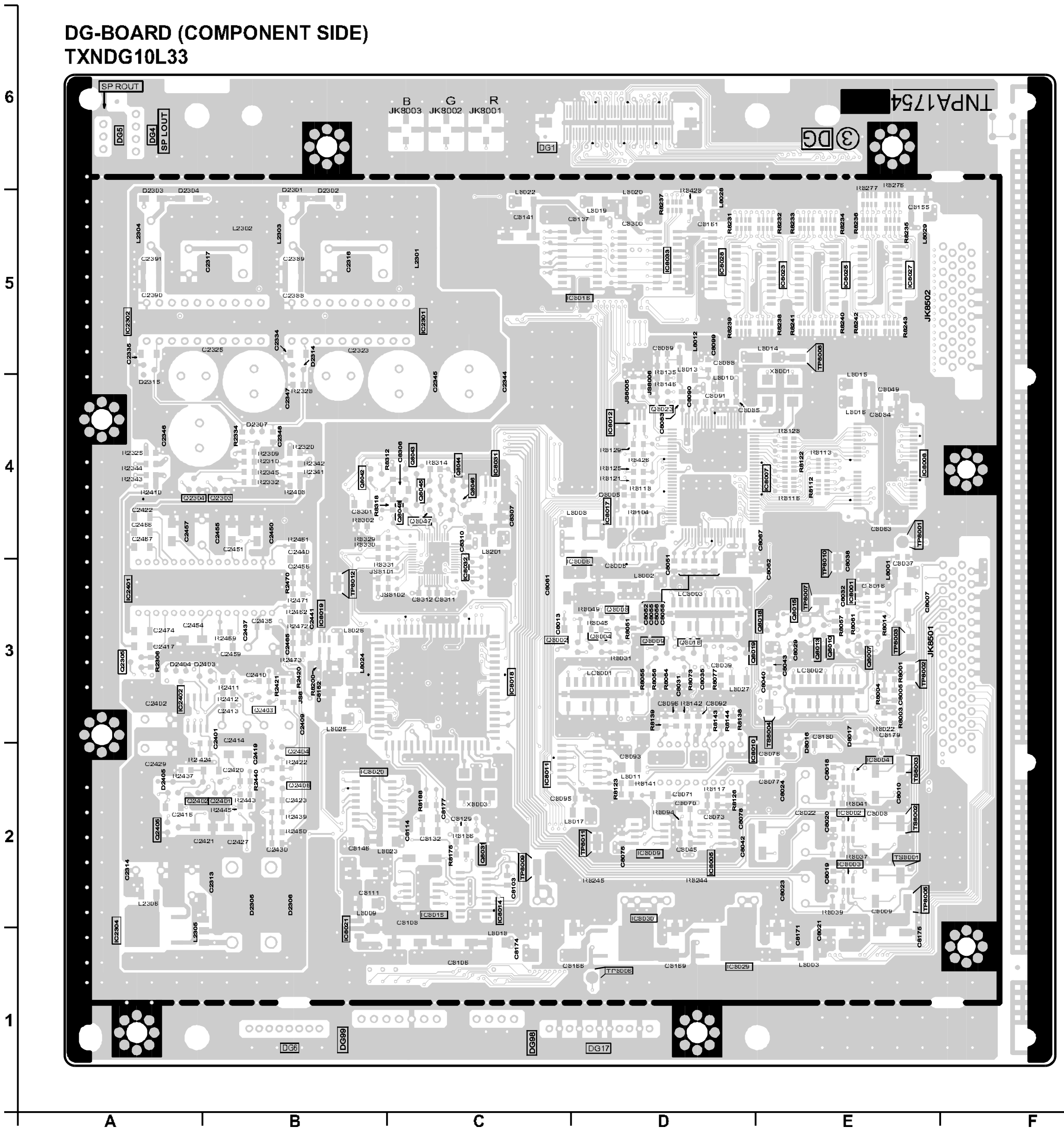


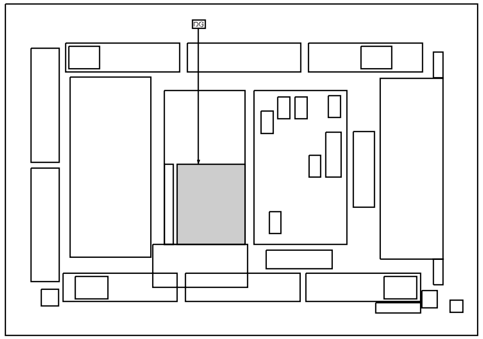
PARTS LOCATION

DG-BOARD (FOIL SIDE)	
IC	
IC2301	D-5
IC2302	E-5
IC2401	E-3
IC8010	C-2
TRANSISTOR	
Q2301	E-4
Q2306	E-3
Q8001	B-3
Q8003	C-3
Q8005	B-3
Q8006	B-3
Q8012	C-3
Q8020	C-3
Q8022	C-4
Q8023	C-5
Q8026	B-2
Q8030	C-5
Q8032	D-2
Q8049	E-3
Q8050	E-3
TEST PONIT	
TP8004	D-2
TP8013	D-5
TP8014	C-5
TP8015	C-5
TP8016	C-5
TP8018	D-5

ADDRESS INFORMATION

DG-BOARD (COMPONENT SIDE)
TXNDG10L33


TNPA1754
3 DG
SP ROUT
SP LOUT
DG5
DG4
DG1
DG6
DG99
DG98
DG17
B G R
JK8003 JK8002 JK8001
JK8502
JK8501
A
B
C
D
E
F
1
2
3
4
5
6



PARTS LOCATION

DG-BOARD (COMPONENT SIDE)

IC

IC2301	C-5
IC2302	A-5
IC2304	A-1
IC2401	A-3
IC2402	A-3
IC8001	E-3
IC8002	E-2
IC8003	E-2
IC8004	E-2
IC8005	D-2
IC8006	D-3
IC8007	E-4
IC8008	E-4
IC8009	D-2
IC8010	E-2
IC8011	C-2
IC8012	D-4
IC8014	C-2
IC8015	C-2
IC8016	D-5
IC8017	D-4
IC8018	C-3
IC8019	B-3
IC8020	B-2
IC8021	B-1
IC8023	E-5
IC8025	E-5
IC8027	E-5
IC8028	D-5
IC8029	D-1
IC8030	D-2
IC8031	C-4
IC8032	C-3
IC8033	D-5

TRANSISTOR

Q2303	B-4
Q2304	A-4
Q2305	A-3
Q2401	B-2
Q2402	A-2
Q2403	B-3
Q2404	B-2
Q2405	A-2
Q2406	B-2
Q8002	C-3
Q8004	D-3
Q8007	E-3
Q8008	D-3
Q8009	D-3
Q8010	E-3
Q8013	E-3
Q8015	E-3
Q8016	D-3
Q8018	E-3
Q8019	E-3
Q8023	D-4
Q8031	C-2
Q8042	B-4
Q8043	C-4
Q8044	C-4
Q8045	C-4
Q8046	C-4
Q8047	C-4
Q8048	C-4

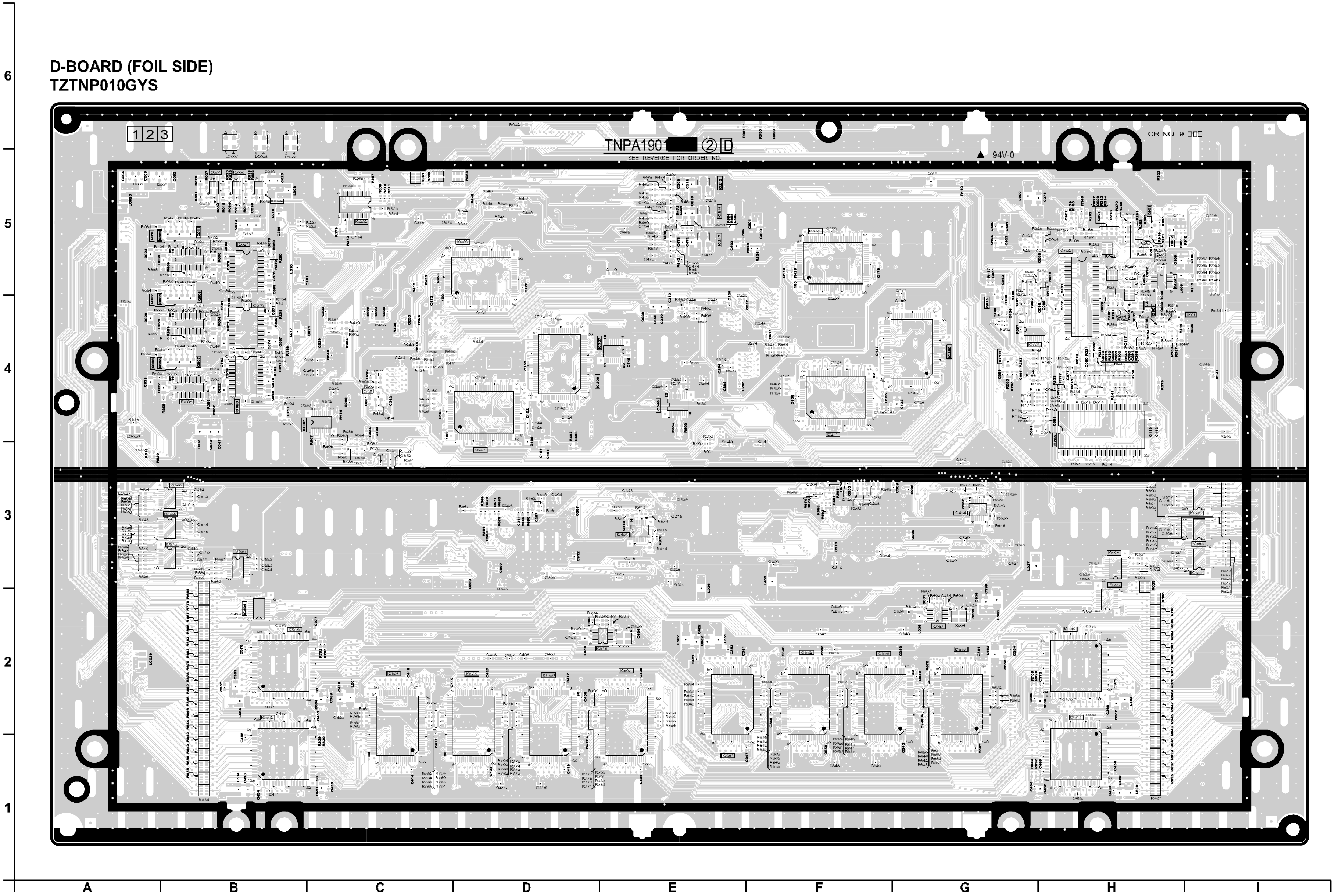
TEST POINT

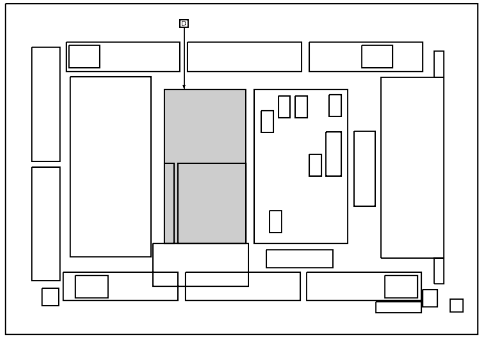
TP8001	E-4
TP8002	E-3
TP8003	E-3
TP8005	E-2
TP8006	D-1
TP8007	E-3
TP8008	E-5
TP8009	C-2
TP8010	E-3
TP8011	D-2
TP8012	B-3
TS8001	E-2
TS8002	E-2
TS8003	E-2
TS8004	E-2

ADDRESS INFORMATION

12.7. D-Board

D-BOARD (FOIL SIDE)
TZTNP010GYS


1 2 3
TNPA1901
② D
SEE REVERSE FOR ORDER NO.
94V-0
CR NO. 9
1
2
3
4
5
6
A
B
C
D
E
F
G
H
I



PARTS LOCATION

D-BOARD (FOIL SIDE)

IC	
IC000	B-5
IC001	B-5
IC002	B-5
IC005	B-4
IC019	B-4
IC020	B-4
IC021	B-5
IC047	B-4
IC048	E-4
IC061	E-1
IC067	G-2
IC200	D-4
IC201	D-3
IC202	C-5
IC209	D-5
IC213	E-5
IC214	E-5
IC217	E-5
IC251	F-4
IC259	F-5
IC260	G-4
IC404	E-3
IC454	G-3
IC502	D-2
IC503	C-2
IC504	B-2
IC506	D-2
IC507	E-2
IC510	B-3
IC511	I-3
IC512	B-2
IC513	H-2
IC518	E-2
IC520	B-3
IC521	H-3
IC552	F-2
IC555	H-3
IC556	F-2
IC557	G-2
IC558	B-2
IC559	H-2
IC560	B-3
IC561	I-3
IC564	B-3
IC565	I-3
IC702	H-5
IC703	G-4
IC704	G-4
IC705	H-4
IC707	D-4
IC907	H-5
IC909	H-4

TRANSISTOR	
Q001	B-4
Q002	A-4
Q003	B-4
Q005	A-4
Q006	B-4
Q007	B-4
Q009	B-5
Q010	A-5
Q011	B-5
Q013	G-4
Q021	C-4
Q050	E-5
Q901	I-4
Q902	H-5
Q903	H-5

ADDRESS INFORMATION

PARTS LOCATION

D-BOARD (COMPONENT SIDE)

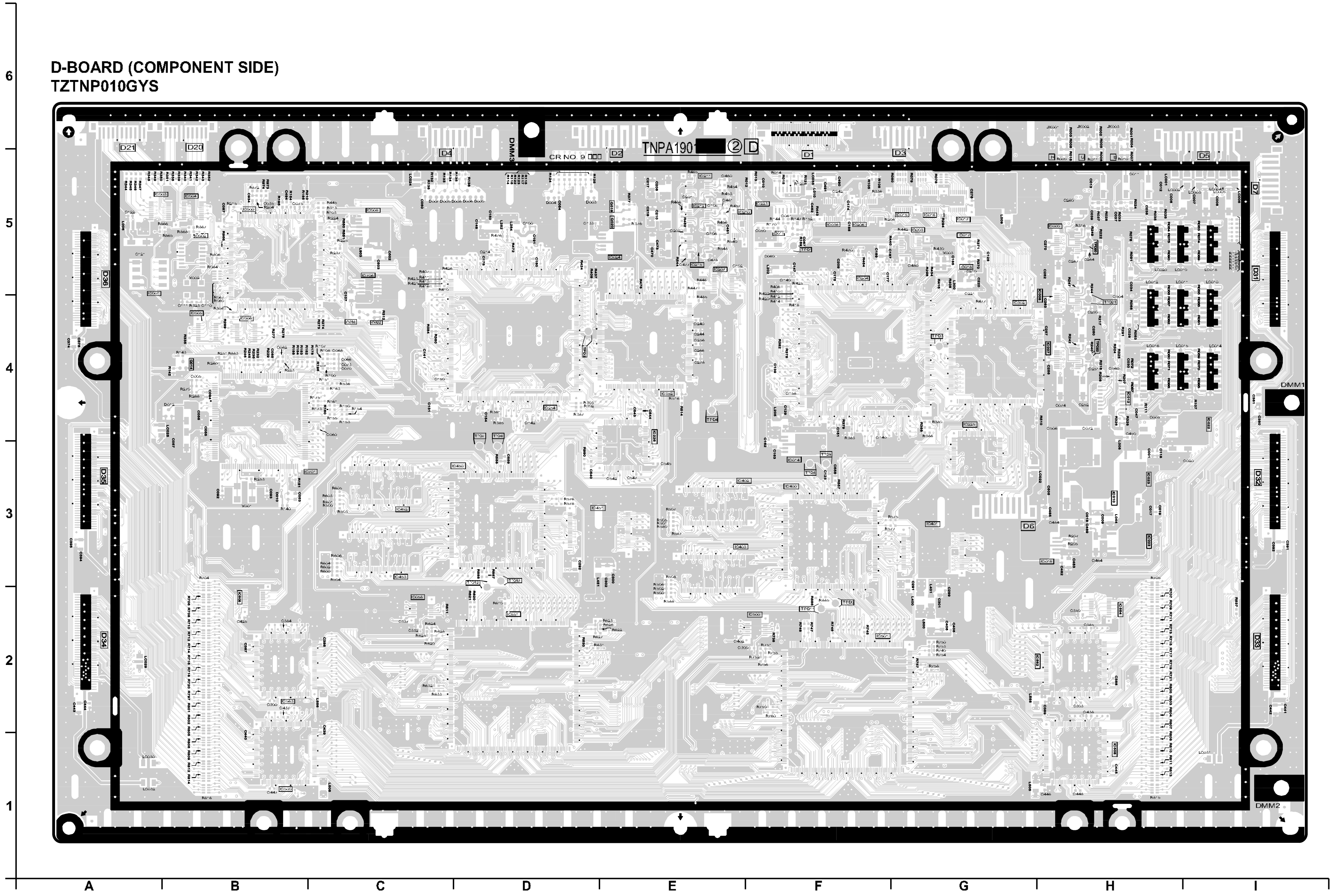
IC	
IC003	H-3
IC007	H-4
IC008	H-4
IC009	H-5
IC010	H-3
IC012	H-4
IC014	F-3
IC015	G-5
IC016	G-5
IC017	G-5
IC018	H-3
IC023	H-3
IC024	E-5
IC036	F-5
IC068	C-2
IC093	G-5
IC204	F-5
IC206	F-5
IC207	E-5
IC210	F-5
IC211	E-5
IC212	E-5
IC215	E-5
IC223	F-5
IC225	G-4
IC226	E-3
IC254	D-4
IC302	G-4
IC352	E-4
IC400	F-3
IC401	G-3
IC402	E-3
IC403	E-3
IC450	D-3
IC451	D-3
IC452	C-3
IC453	C-3
IC500	F-2
IC501	F-2
IC505	B-2
IC509	B-1
IC508	H-1
IC551	D-2
IC554	H-2
IC562	H-2
IC563	B-2
IC701	B-3
IC706	C-5
IC900	B-5
IC901	A-5
IC902	B-5
IC903	B-5
IC904	B-5
IC905	B-4
IC906	B-4
IC908	C-5

TRANSISTOR	
Q014	B-4
Q015	F-5
Q016	C-4
Q017	G-5
Q018	G-5
Q019	E-5
Q020	E-5
Q022	C-4

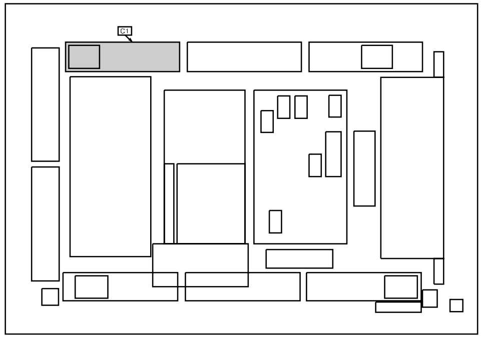
TEST POINT	
TPD1	F-2
TPD2	D-4
TPD3	G-4
TPD4	E-4
TPD5	F-3
TPD6	D-3
TPD7	D-3
TPD7	F-5
TPD8	F-3
TPD9	F-2
TPD10	D-3
TPD12	D-3
TPD20	H-5
TPD21	H-4
TPD22	H-4

ADDRESS INFORMATION

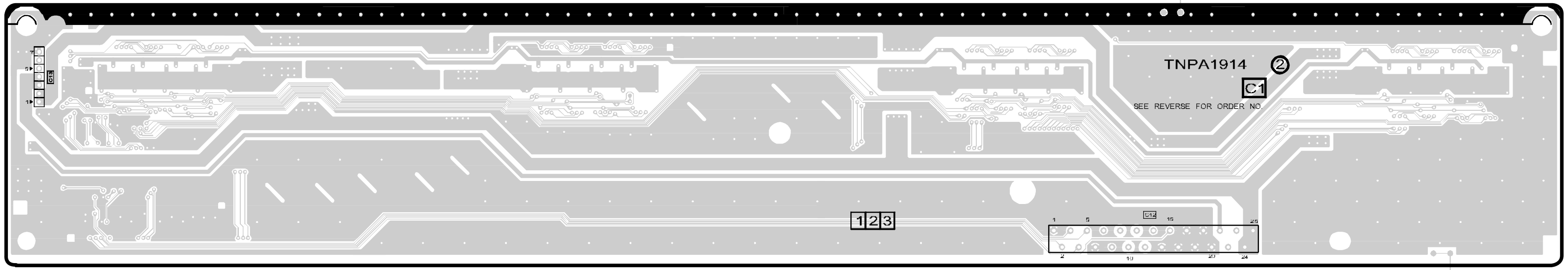
D-BOARD (COMPONENT SIDE)
TZTNP010GYS


6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
D21
D20
D4
DMM3
CR NO. 9
D2
TNPA1901
②
D
D1
D3
D5
D7
D31
D32
D33
D34
D35
D36
D6
DMM1
DMM2

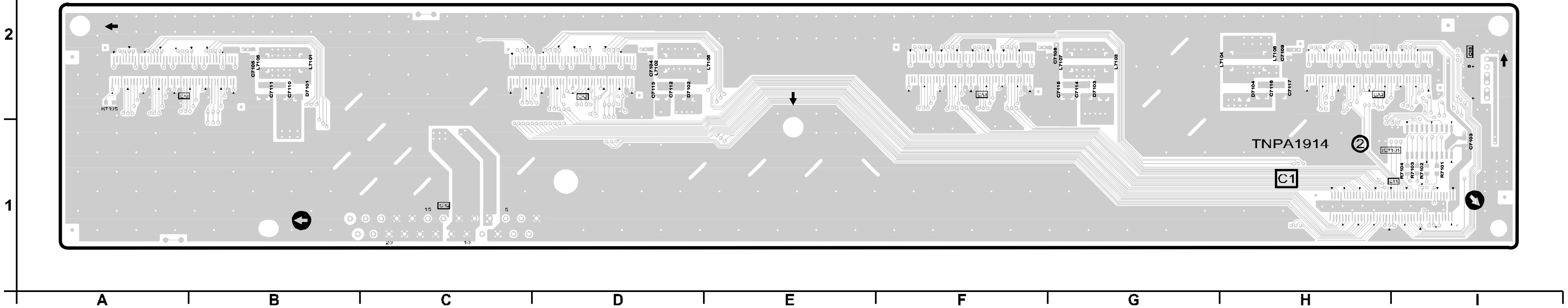
12.8. C1-Board



C1-BOARD (FOIL SIDE)
TNPA1914


TNPA1914
②
C1
SEE REVERSE FOR ORDER NO.
1 2 3
C12
C13
1
5
15
25
2
10
20
24

C1-BOARD (COMPONENT SIDE)
TNPA1914


R7105
C7105
L7105
L7101
C7111
C7110
D7101
C7104
L7102
L7106
C7113
C7112
D7102
C7108
L7107
L7103
C7115
C7114
D7103
L7104
L7108
C7109
D7104
C7116
C7117
C13
5
TNPA1914
②
C1
IC7101
C11
R7104
R7103
R7102
R7101
C7103
C12
15
5
20
10
1
2
3
4
5
6
A
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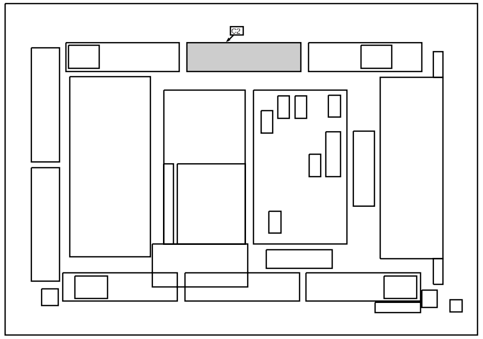
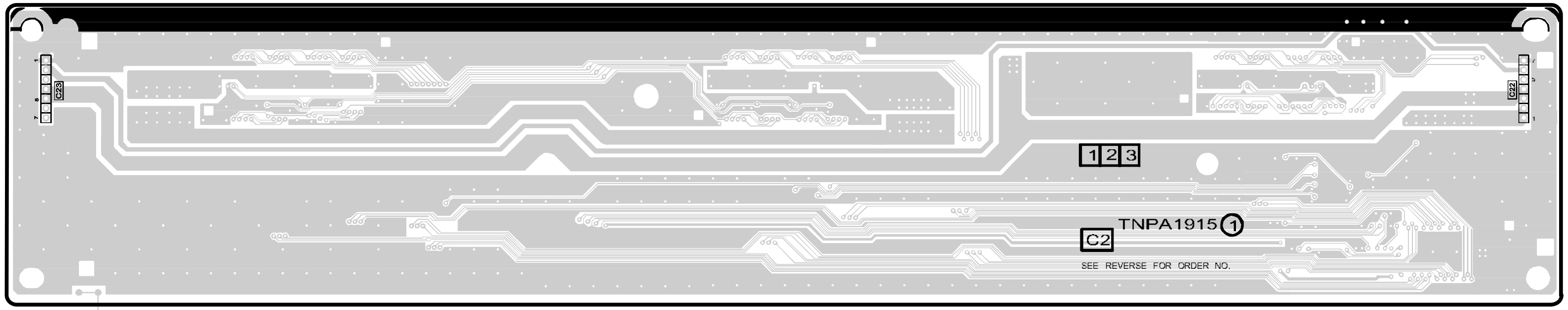
D
E
F
G
H
I

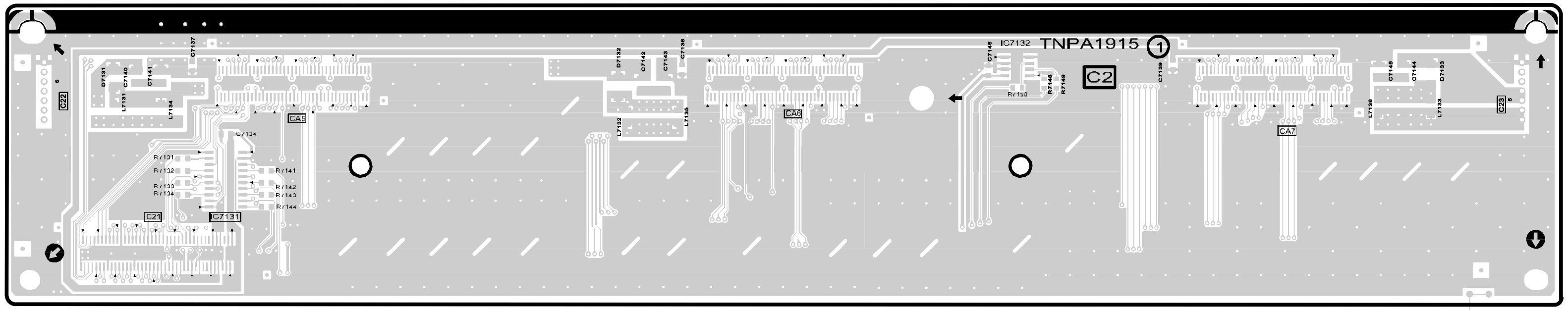
12.9. C2-Board



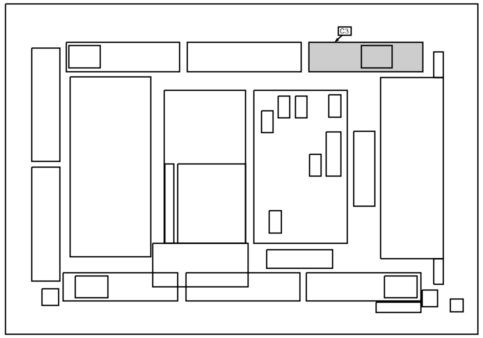
C2-BOARD (FOIL SIDE)
TNPA1915


C23
C22
1 2 3
C2
TNPA1915 ①
SEE REVERSE FOR ORDER NO.

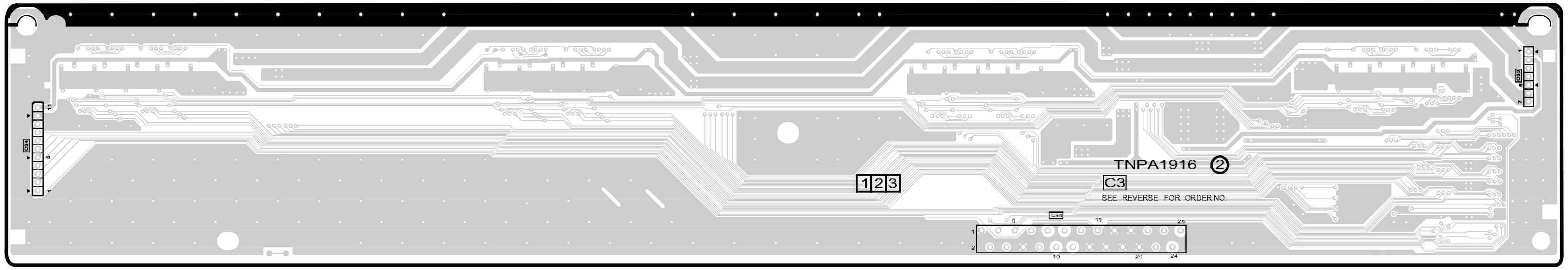
C2-BOARD (COMPONENT SIDE)
TNPA1915


C22
D7131
C7140
C7141
L7131
L7134
C7137
CA5
C7134
R7131
R7132
R7133
R7134
R7141
R7142
R7143
R7144
C21
IC7131
D7132
C7142
C7143
C7136
L7132
L7135
CA6
C7146
IC7132
TNPA1915 ①
R7150
R7148
R7149
C2
C7139
CA7
L7136
C7145
C7144
D7133
L7133
C23
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I

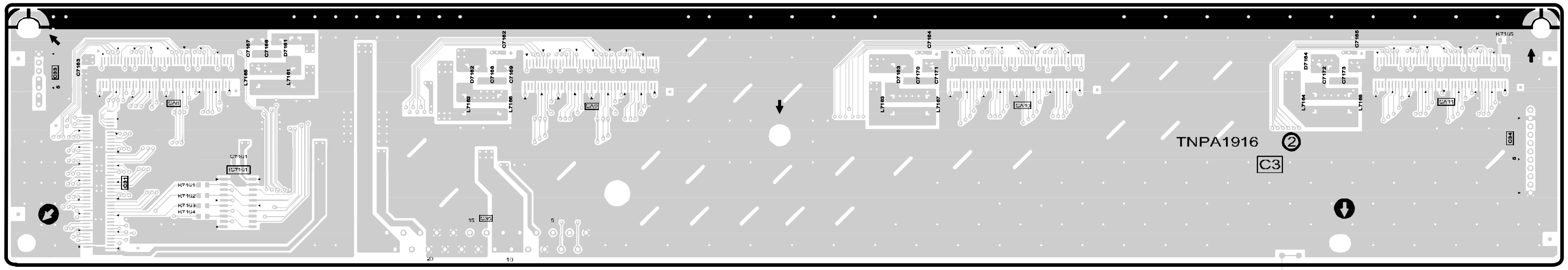
12.10. C3-Board



C3-BOARD (FOIL SIDE)
TNPA1916


TNPA1916 ②
C3
SEE REVERSE FOR ORDER NO.
123

C3-BOARD (COMPONENT SIDE)
TNPA1916


C7163
C7167
C7166
D7161
L7165
L7161
C7162
D7162
C7168
C7169
L7162
L7166
C7164
D7163
C7170
C7171
L7163
L7167
C7165
D7164
C7172
C7173
L7164
L7168
TNPA1916 ②
C3
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A
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F
G
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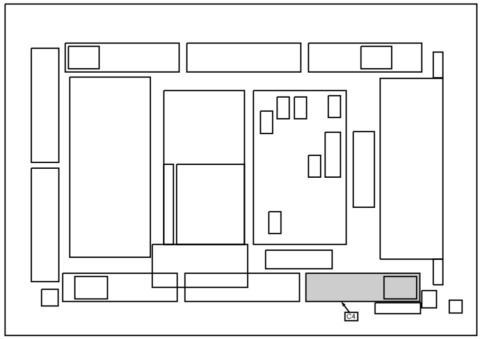
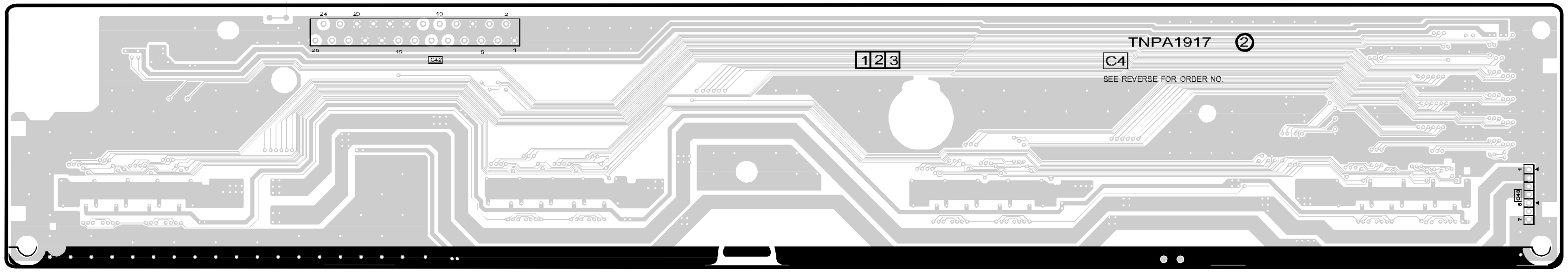
I

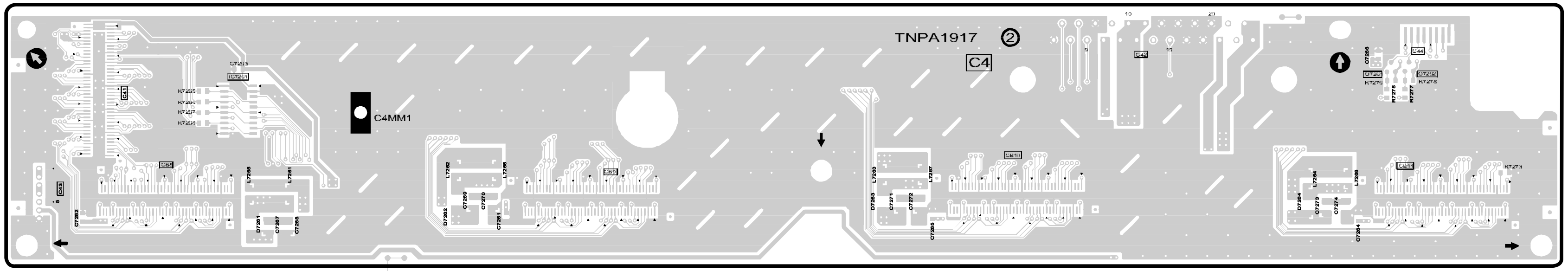
12.11. C4-Board



C4-BOARD (FOIL SIDE)
TNPA1917


TNPA1917 ②
C4
SEE REVERSE FOR ORDER NO.
1 2 3
24
20
10
2
25
15
5
1
C42

C4-BOARD (COMPONENT SIDE)
TNPA1917


TNPA1917 ②
C4
C4MM1
C41
C42
C43
C44
C45
C46
C47
C48
C49
C7262
C7263
C7264
C7265
C7266
C7267
C7268
C7269
C7270
C7271
C7272
C7273
C7274
D7261
D7262
D7263
D7264
L7261
L7262
L7263
L7264
L7265
L7266
L7267
L7268
R7273
R7276
R7277
R7295

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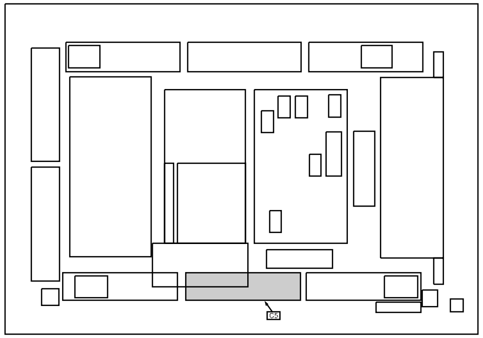
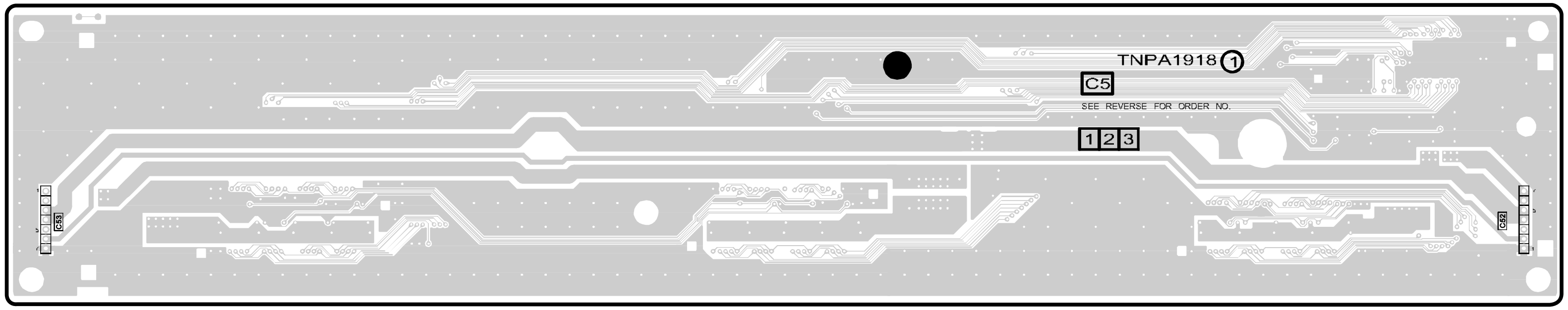
I

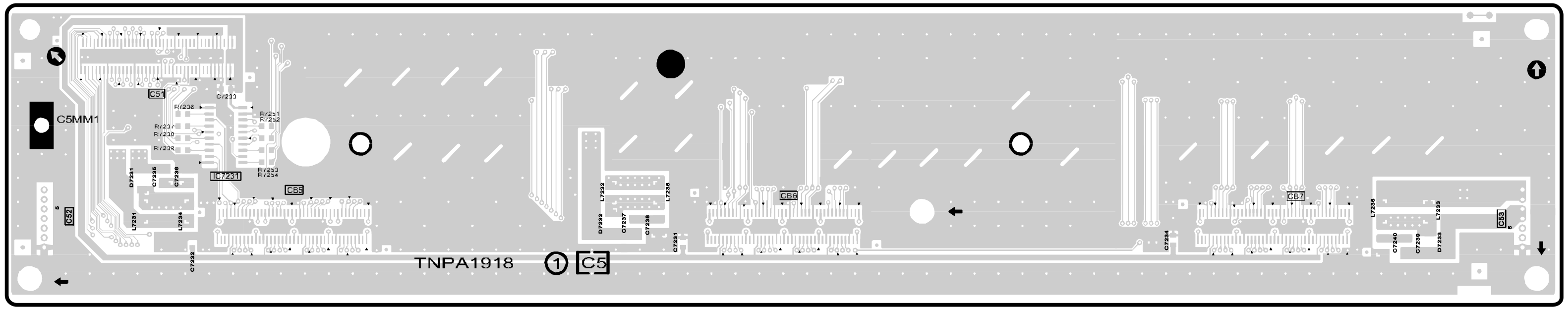
12.12. C5-Board



C5-BOARD (FOIL SIDE)
TNPA1918


TNPA1918 ①
C5
SEE REVERSE FOR ORDER NO.
1 2 3
C53
C52

C5-BOARD (COMPONENT SIDE)
TNPA1918


C5MM1
C51
C/233
R/236
R/231
R/232
R/237
R/230
R/238
IC7231
R/233
R/234
C55
D7231
C7235
C7236
L7231
L7234
C7232
C52
TNPA1918 ① C5
L7232
D7232
C7237
C7238
L7235
C7231
C56
C7234
C57
L7236
C7240
C7239
L7233
D7233
C53
6
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4
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A
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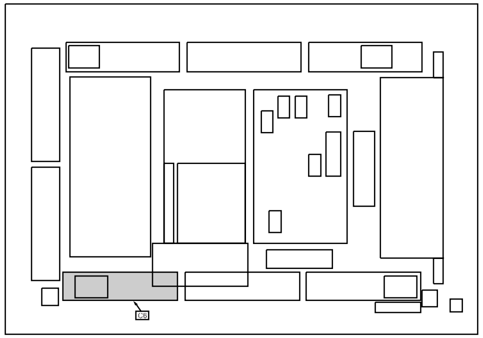
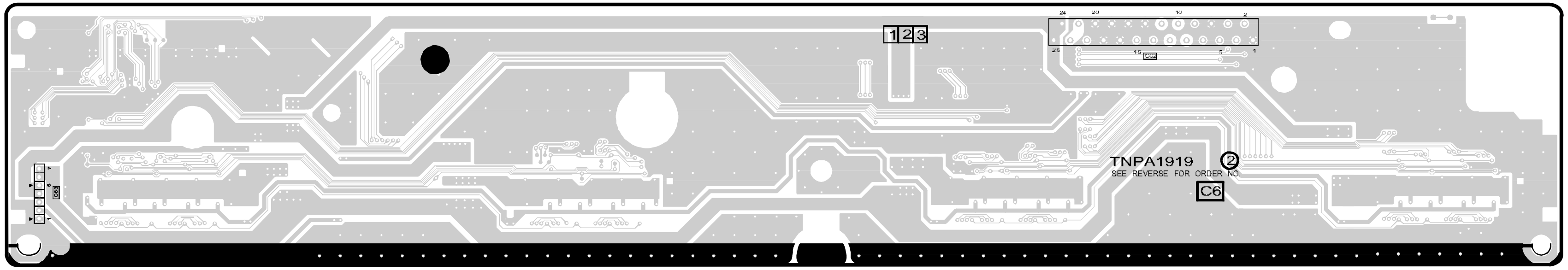
C
D
E
F
G
H
I

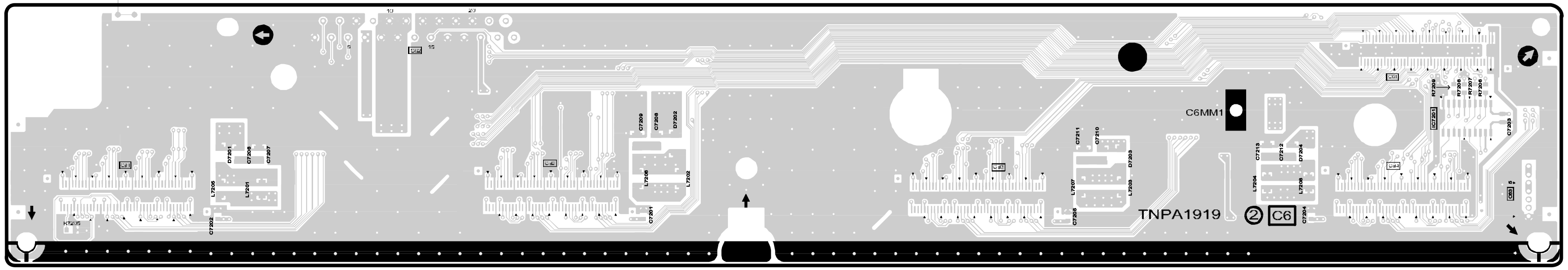
12.13. C6-Board



C6-BOARD (FOIL SIDE)
TNPA1919

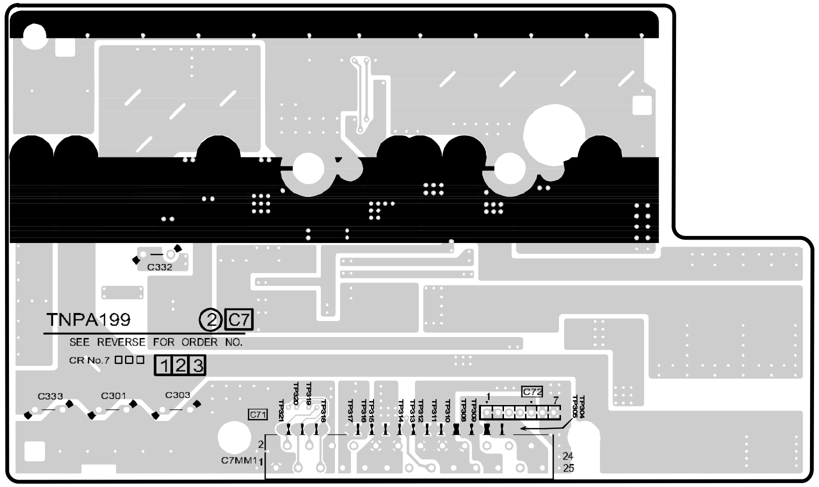

1 2 3
24
23
19
2
25
15
5
1
TNPA1919
②
SEE REVERSE FOR ORDER NO.
C6

C6-BOARD (COMPONENT SIDE)
TNPA1919

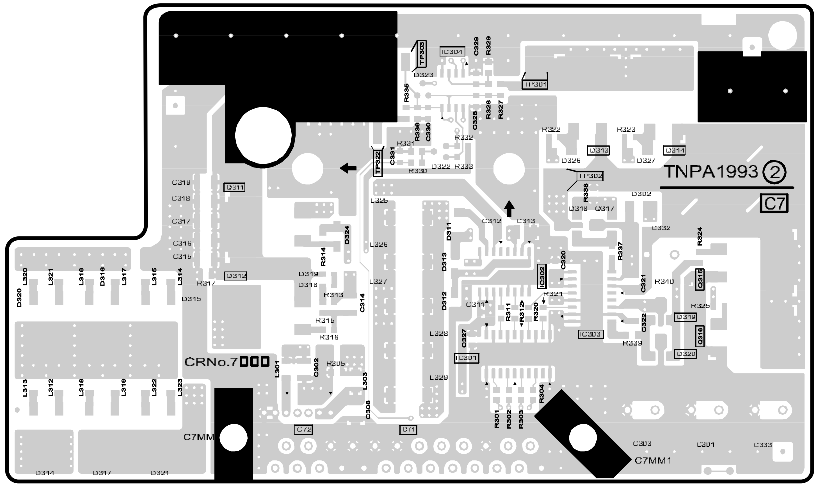

19
23
5
15
R7205
D7201
C7206
C7207
L7205
L7201
C7202
C7209
C7208
D7202
L7206
L7202
C7201
C7211
C7210
D7203
L7207
L7203
C7205
C6MM1
C7213
C7212
D7204
L7204
L7208
C7204
TNPA1919
②
C6
R7209
R7208
R7207
R7206
IC7201
C7203
5

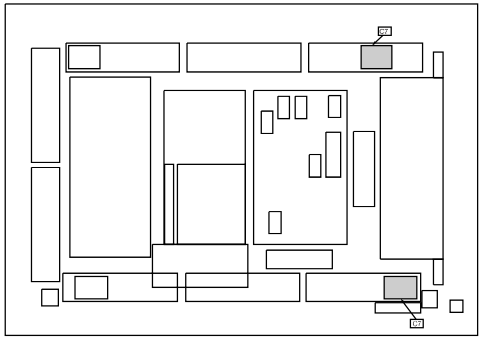
12.14. C7-Board

C7-BOARD (FOIL SIDE)
TNPA1993


TNPA199
② C7
SEE REVERSE FOR ORDER NO.
CR No.7 □□□ 1 2 3
C332
C333
C301
C303
C71
C72
TP321
TP320
TP319
TP318
TP317
TP316
TP315
TP314
TP313
TP312
TP311
TP310
TP308
TP309
TP306
TP304
C7MM1
1
2
7
24
25

C7-BOARD (COMPONENT SIDE)
TNPA1993


TNPA1993 ②
C7
CRNo.7□□□
C7MM1
C7MM
TP303
TP322
IC301
IC302
IC303
R335
R336
R331
R330
D322
R333
R332
C330
C331
C329
R329
C328
R328
R327
R322
R323
D323
D325
D326
D327
D328
D302
D311
D312
D313
D314
D315
D316
D317
D318
D319
D320
D321
D324
Q311
Q312
Q313
Q314
Q315
Q316
Q319
Q320
R338
R337
R324
R340
R325
R339
R321
R320
R311
R312
R313
R314
R315
R316
R317
R301
R302
R303
R304
R305
C311
C312
C313
C314
C315
C316
C317
C318
C319
C320
C321
C322
C327
C332
C302
C303
C301
C308
C71
C72
L301
L303
L311
L312
L313
L314
L316
L317
L318
L319
L321
L322
L323
L325
L326
L327
L328
L329
L320


C7
C7

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5
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A
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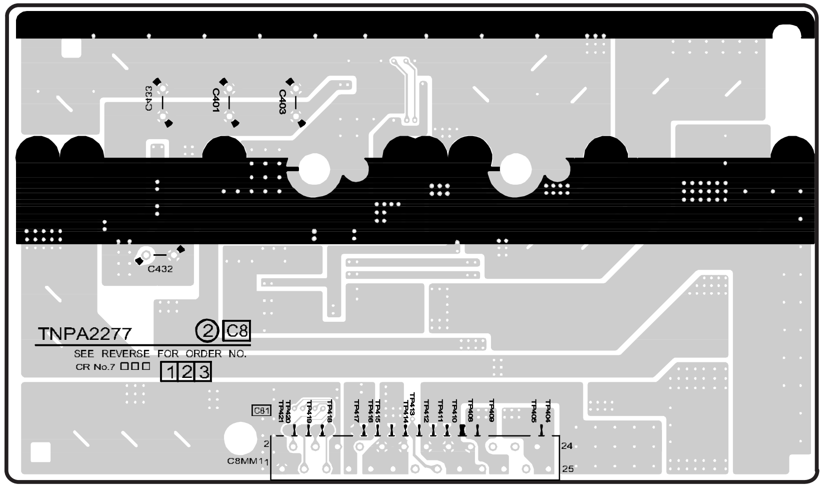
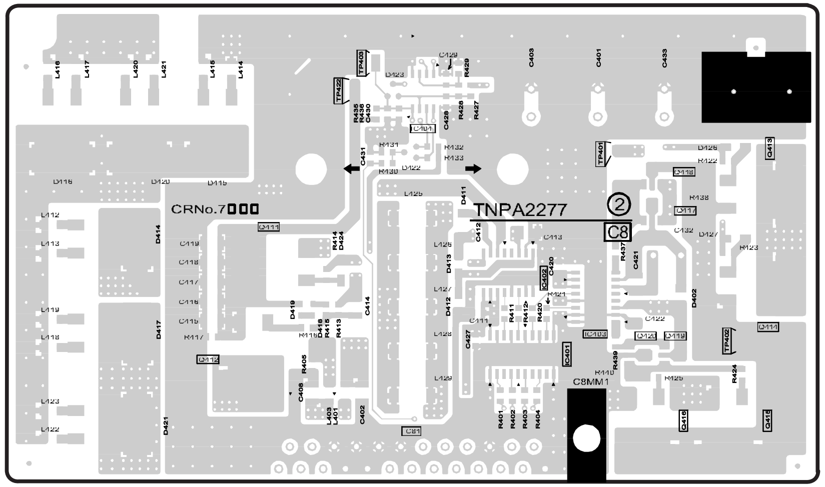
I

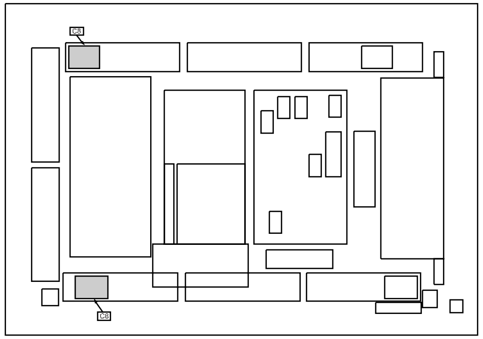
12.15. C8-Board

C8-BOARD (FOIL SIDE)
TNPA2277


C433
C401
C403
C432
TNPA2277
② C8
SEE REVERSE FOR ORDER NO.
CR No.7 ☐☐☐ 1 2 3
C81
TP421
TP420
TP419
TP418
TP417
TP416
TP415
TP414
TP413
TP412
TP411
TP410
TP408
TP409
TP405
TP404
2
24
25
C8MM11

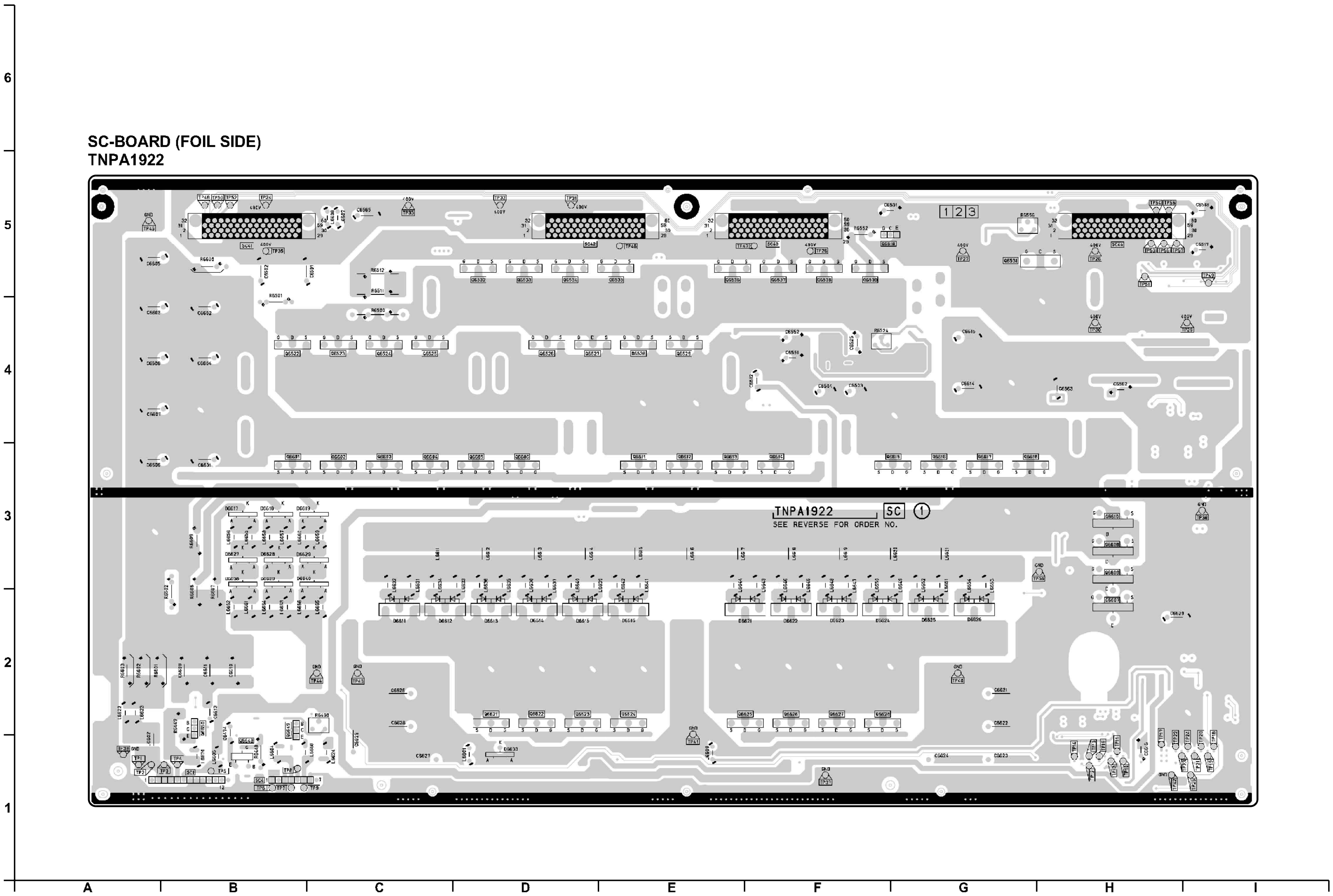
C8-BOARD (COMPONENT SIDE)
TNPA2277

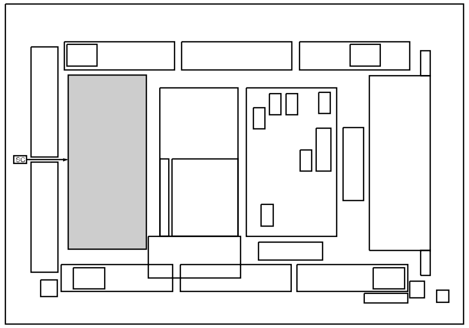

L416
L417
L420
L421
L415
L414
TP422
TP403
C403
C401
C433
CRNo.7☐☐☐
TNPA2277
② C8
C8MM1
C81
R401
R402
R403
R404
IC401
IC402
TP401
TP402
D402
D411
D412
D413
D414
D417
D419
D421
L401
L403



12.16. SC-Board

SC-BOARD (FOIL SIDE)
TNPA1922


TNPA1922
SC
①
SEE REVERSE FOR ORDER NO.
1
2
3
A
B
C
D
E
F
G
H
I
1
2
3
4
5
6



PARTS LOCATION

SC-BOARD (FOIL SIDE)

TRANSISTOR	
Q6510	F-5
Q6522	B-4
Q6523	C-4
Q6524	C-4
Q6525	C-4
Q6526	D-4
Q6527	D-4
Q6528	E-4
Q6529	E-4
Q6531	G-5
Q6532	D-5
Q6533	D-5
Q6534	D-5
Q6535	E-5
Q6536	E-5
Q6537	F-5
Q6538	F-5
Q6539	F-5
Q6601	B-3
Q6602	C-3
Q6603	C-3
Q6604	C-3
Q6605	D-3
Q6606	D-3
Q6607	H-2
Q6608	H-3
Q6609	H-3
Q6610	H-3
Q6611	E-3
Q6612	E-3
Q6613	E-3
Q6614	F-3
Q6615	F-3
Q6615	G-3
Q6616	G-3
Q6617	G-3
Q6618	G-3
Q6621	D-2
Q6622	D-2
Q6623	D-2
Q6624	E-2
Q6625	F-2
Q6626	F-2
Q6627	F-2
Q6628	F-2
Q6648	B-1
Q6649	B-2
Q6650	B-2

TEST POINT	
TP1	A-1
TP2	A-1
TP3	B-1
TP4	B-1
TP5	B-1
TP6	B-1
TP7	B-1
TP8	B-1
TP9	B-1
TP10	H-1
TP11	H-1
TP12	H-1
TP13	H-1
TP14	H-1
TP15	H-1
TP16	H-1
TP17	H-1
TP18	I-1
TP19	I-1
TP20	I-1
TP21	I-1
TP22	H-1
TP23	I-1
TP24	I-1
TP25	I-1
TP26	H-5
TP27	G-5
TP28	F-5
TP29	I-4
TP30	H-4
TP31	D-5
TP32	D-5
TP33	C-5
TP34	B-5
TP35	B-5
TP36	I-3
TP37	F-1
TP38	A-1
TP39	G-3
TP40	G-2
TP41	E-1
TP42	H-1
TP43	C-2
TP44	C-2
TP45	A-5
TP47	F-5
TP48	B-5
TP49	I-5
TP50	B-5
TP51	H-5
TP52	B-5
TP53	H-5
TP54	H-5
TP55	H-5
TP56	H-5
TP57	H-5

ADDRESS INFORMATION

PARTS LOCATION

SC-BOARD (COMPONENT SIDE)

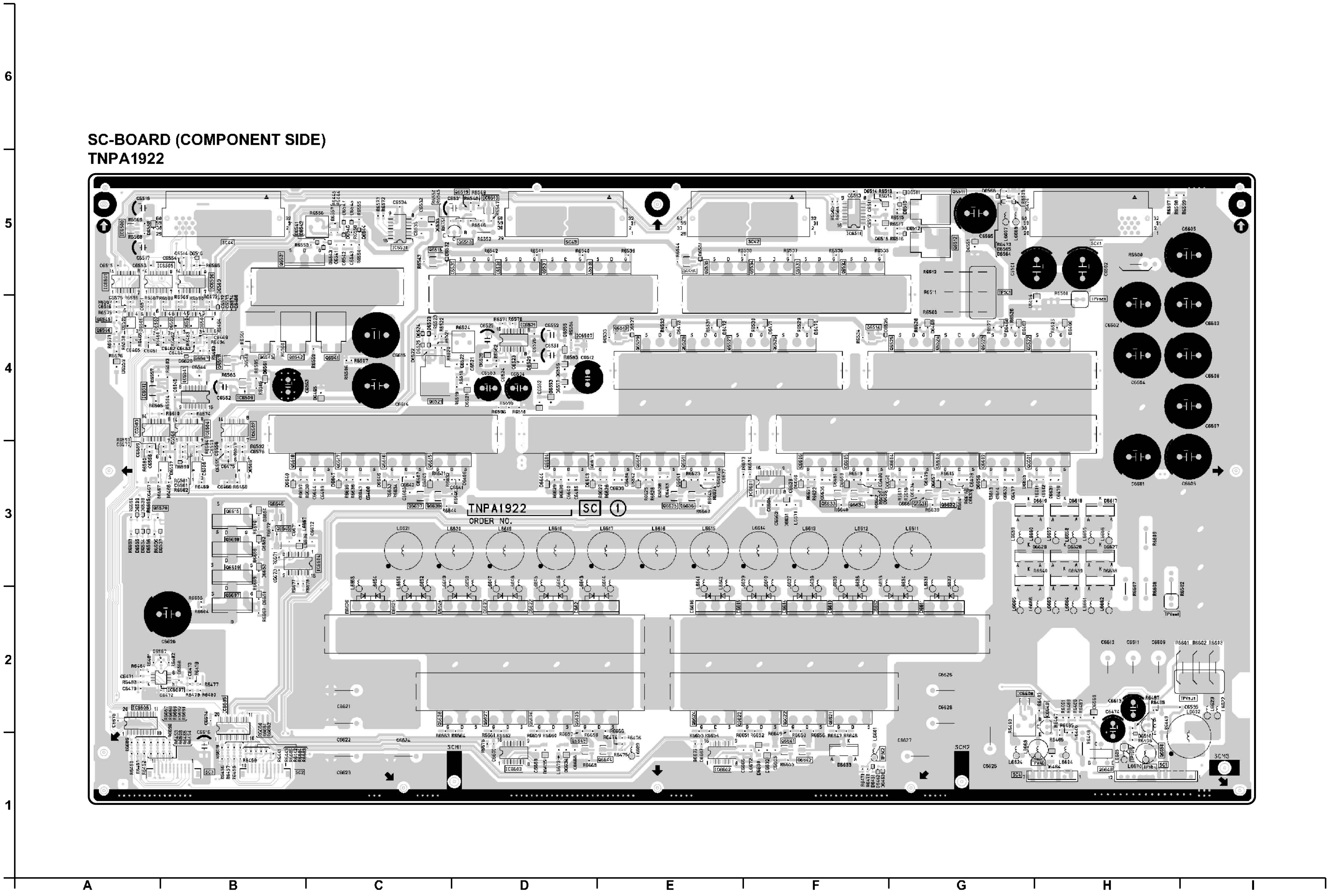
IC	
IC6500	A-5
IC6501	A-5
IC6502	B-4
IC6503	A-4
IC6504	B-4
IC6505	A-5
IC6506	B-5
IC6507	D-4
IC6509	B-4
IC6510	D-5
IC6511	F-5
IC6512	A-4
IC6521	D-4
IC6531	C-5
IC6541	B-4
IC6601	F-3
IC6602	E-1
IC6603	D-1
IC6604	C-3
IC6605	B-2
IC6606	A-2
IC6607	B-2
IC6608	G-2

TRANSISTOR	
Q6511	G-5
Q6512	G-5
Q6513	E-4
Q6514	F-4
Q6515	C-5
Q6516	E-5
Q6517	B-4
Q6518	D-5
Q6519	D-5
Q6521	C-4
Q6522	G-4
Q6523	G-4
Q6524	G-4
Q6525	G-4
Q6526	F-4
Q6527	E-4
Q6528	A-3
Q6528	E-4
Q6529	E-4
Q6531	B-5
Q6532	F-5
Q6533	F-5
Q6534	F-5
Q6535	E-5
Q6536	D-5
Q6537	D-5
Q6538	D-5
Q6539	D-5
Q6541	C-4
Q6542	B-4
Q6543	B-4
Q6545	A-4
Q6546	A-4
Q6601	G-3
Q6602	G-3
Q6603	G-3
Q6604	G-3
Q6605	F-3
Q6606	F-3
Q6607	B-2
Q6608	B-3
Q6609	B-3
Q6610	B-3
Q6611	E-3
Q6612	E-3
Q6613	D-3
Q6614	D-3
Q6615	C-3
Q6616	C-3
Q6617	C-3
Q6618	B-3
Q6621	F-2
Q6622	F-2
Q6624	E-2
Q6625	D-2
Q6626	D-2
Q6627	D-2
Q6628	C-2
Q6631	G-3
Q6632	G-3
Q6633	F-3
Q6634	F-3
Q6635	E-3
Q6636	E-3
Q6641	F-1
Q6642	F-1
Q6643	D-1
Q6644	E-1
Q6645	B-3
Q6646	B-3
Q6648	H-1
Q6649	H-2
Q6650	H-1

TEST POINT	
TP15V	H-1
TPSC1	G-5
TPSC2	F-1
TPVAD	H-1
TPVbk	H-1
TPVscn	H-5
TPVset	H-2

ADDRESS INFORMATION

SC-BOARD (COMPONENT SIDE)
TNPA1922


TNPA1922
SC
ORDER NO.
1
2
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A
B
C
D
E
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G
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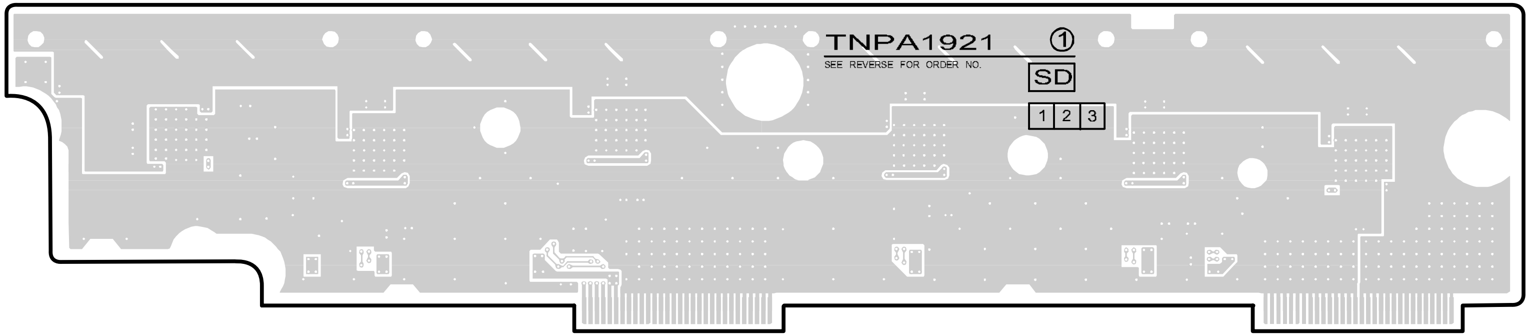
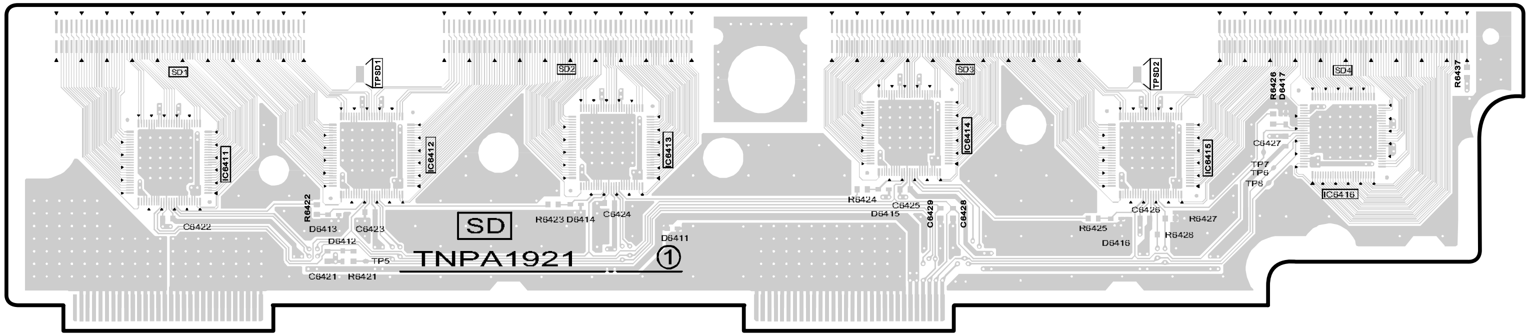
I

12.17. SD-Board

SD-BOARD (FOIL SIDE)
TNPA1921


TNPA1921
①
SEE REVERSE FOR ORDER NO.
SD
1
2
3

SD-BOARD (COMPONENT SIDE)
TNPA1921


SD1
TPSD1
SD2
SD3
TPSD2
SD4
IC6411
IC6412
IC6413
IC6414
IC6415
IC6416
R6422
C6422
D6413
C6423
D6412
TP5
C6421
R6421
SD
TNPA1921
①
R6423 D6414
C6424
D6411
R6424
C6425
D6415
C6429
C6428
C6426
R6425
D6416
R6427
R6428
C6427
TP7
TP6
TP8
R6426
D6417
R6437
A
B
C
D
E
F
G
H
I
1
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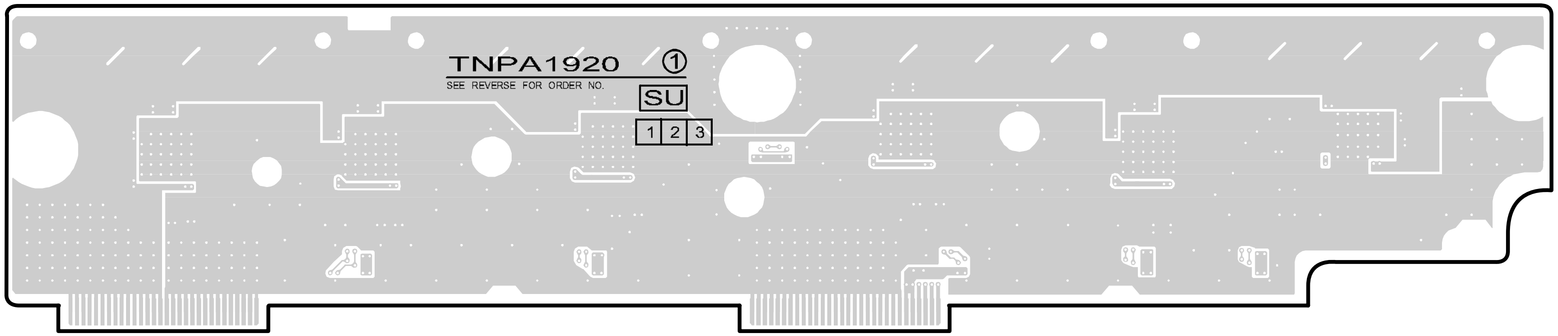
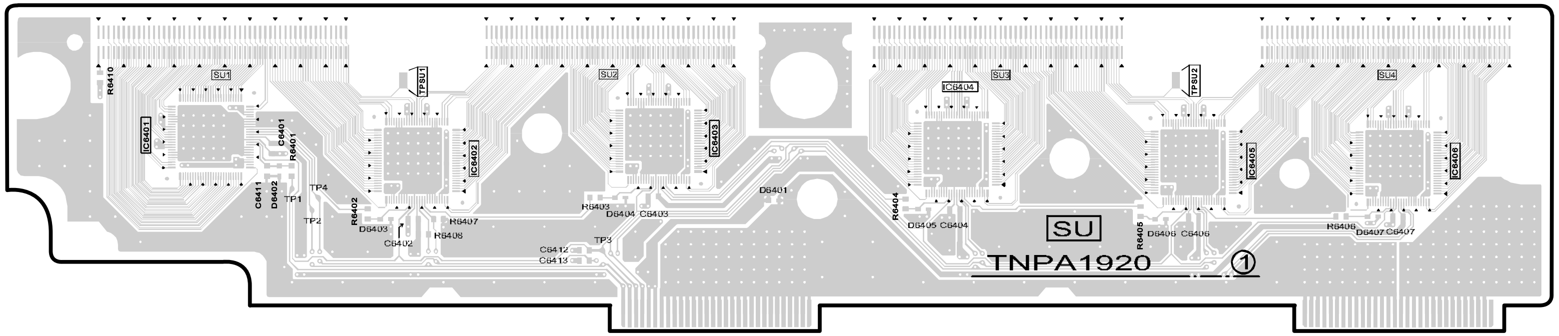
3
4
5
6

12.18. SU-Board

SU-BOARD (FOIL SIDE)
TNPA1920


TNPA1920
①
SEE REVERSE FOR ORDER NO.
SU
1
2
3

SU-BOARD (COMPONENT SIDE)
TNPA1920


R6410
SU1
IC6401
C6411
D6402
C6401
R6401
TP1
TP4
TP2
TPSU1
R6402
D6403
C6402
R6407
R6408
IC6402
SU2
R6403
D6404
C6403
C6412
C6413
TP3
IC6403
D6401
IC6404
SU3
R6404
D6405
C6404
SU
TNPA1920
①
TPSU2
R6405
D6406
C6406
IC6405
SU4
R6406
D6407
C6407
IC6406

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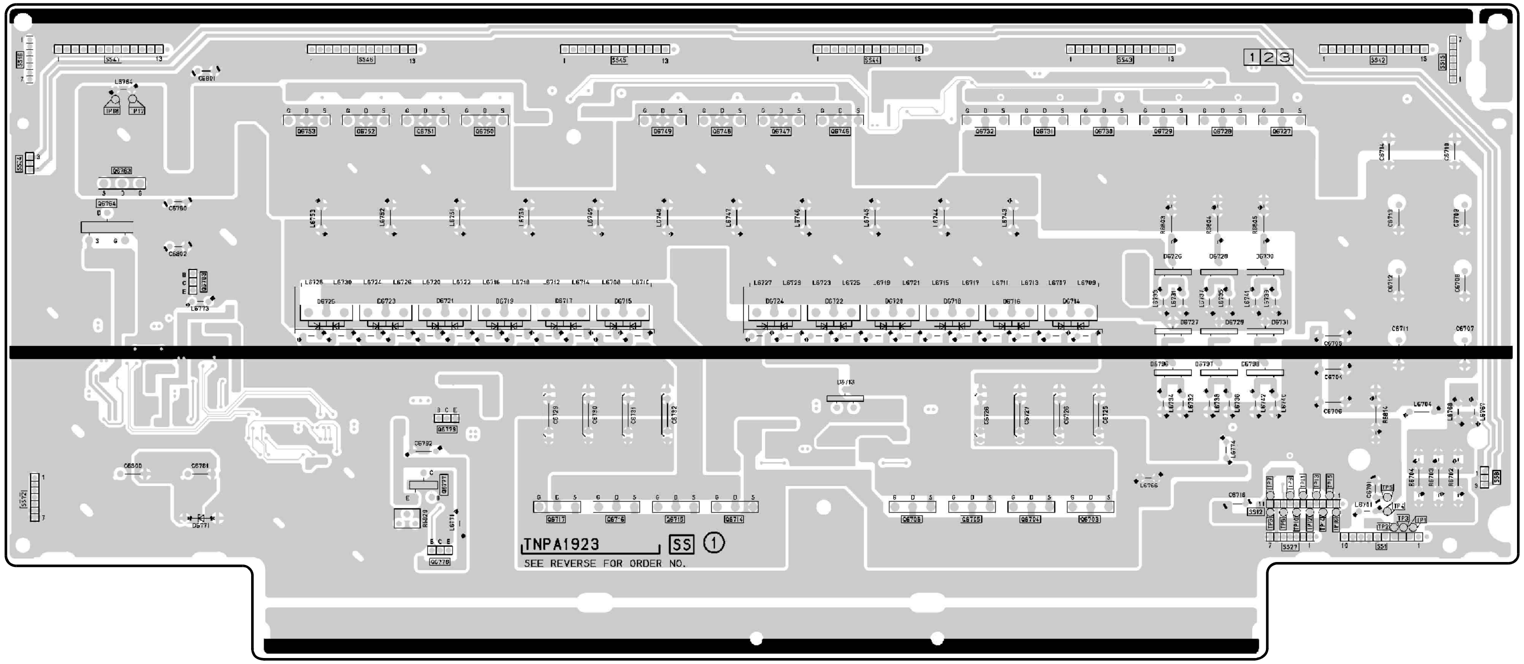
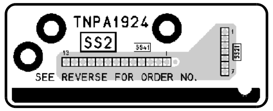
12.19. SS, SS2 and SS3-Board

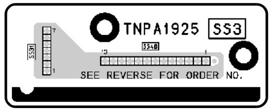
SS-BOARD (FOIL SIDE)
TNPA1923

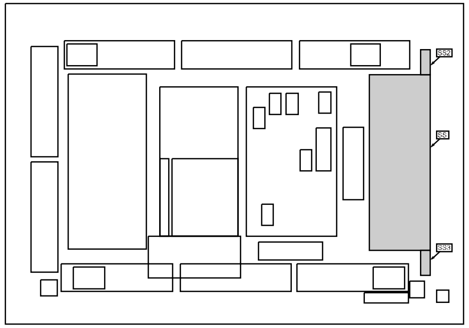

TNPA1923
SS
①
SEE REVERSE FOR ORDER NO.
1 2 3
SS1
SS41
SS46
SS45
SS44
SS43
SS42
SS72
SS3
SS4

SS2-BOARD (FOIL SIDE)
TNPA1924


TNPA1924
SS2
SS41
SS31
SEE REVERSE FOR ORDER NO.

SS3-BOARD (FOIL SIDE)
TNPA1925


TNPA1925
SS3
SS48
SS38
SEE REVERSE FOR ORDER NO.
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I



PARTS LOCATION

SS-BOARD (FOIL SIDE)

TRANSISTOR

Q6703	F-3
Q6704	F-3
Q6705	F-3
Q6706	F-3
Q6714	E-3
Q6715	D-3
Q6716	D-3
Q6717	D-3
Q6727	G-5
Q6728	G-5
Q6729	G-5
Q6730	F-5
Q6731	F-5
Q6732	F-5
Q6746	E-5
Q6747	E-5
Q6748	E-5
Q6749	D-5
Q6750	C-5
Q6751	C-5
Q6752	C-5
Q6753	C-5
Q6764	A-5
Q6769	B-5
Q6777	C-3
Q6778	C-3
Q6779	C-4
Q6783	B-4

TEST POINT

TP1	H-1
TP2	H-1
TP3	H-1
TP4	H-1
TP5	H-1
TP6	G-3
TP7	G-3
TP8	G-3
TP9	G-3
TP10	G-3
TP11	G-3
TP12	H-1
TP13	H-1
TP14	H-1
TP15	H-1
TP17	B-5
TP18	B-5

ADDRESS INFORMATION

PARTS LOCATION

SS-BOARD (COMPONENT SIDE)

IC

IC6701	G-3
IC6702	G-4
IC6703	D-4
IC6704	E-4
IC6705	D-5
IC6706	H-4
IC6707	H-4
IC6709	F-3
IC6711	G-4
IC6712	B-3

TRANSISTOR

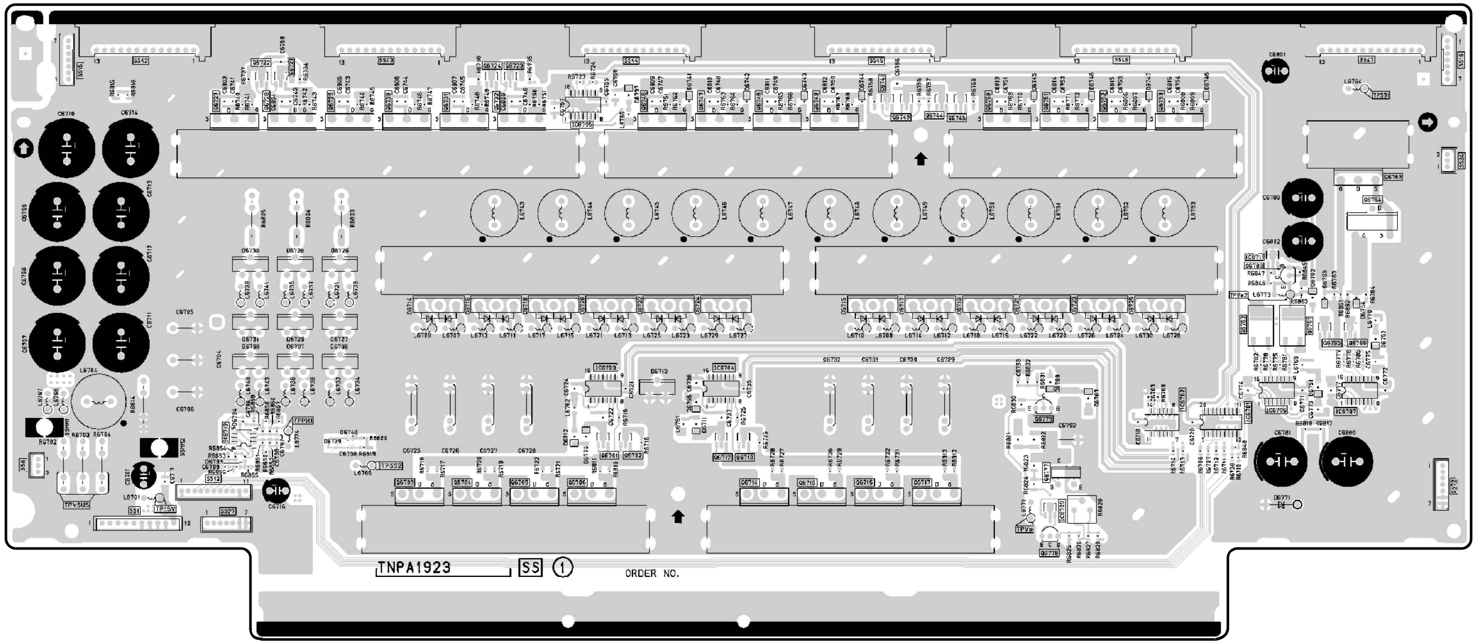
Q6701	D-3
Q6702	D-3
Q6703	C-3
Q6704	C-3
Q6705	D-3
Q6706	D-3
Q6712	E-3
Q6713	E-3
Q6714	E-3
Q6715	E-3
Q6716	E-3
Q6717	F-3
Q6721	B-5
Q6722	B-5
Q6723	D-5
Q6724	D-5
Q6727	B-5
Q6728	B-5
Q6729	C-5
Q6730	C-5
Q6731	C-5
Q6732	D-5
Q6740	F-5
Q6741	F-5
Q6744	F-5
Q6746	D-5
Q6747	E-5
Q6748	E-5
Q6749	E-5
Q6750	F-5
Q6751	F-5
Q6752	G-5
Q6753	G-5
Q6761	H-4
Q6762	G-4
Q6763	H-5
Q6764	H-5
Q6765	H-4
Q6766	H-4
Q6777	F-3
Q6778	F-3
Q6779	F-3
Q6783	G-4

TEST POINT

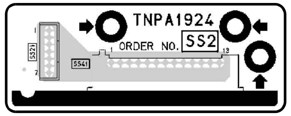
TP15V	B-3
TPPR1	B-3
TPSS1	H-5
TPSS2	C-3
TPVe	F-3
TPVe2	G-4
TPVSUS	A-3

ADDRESS INFORMATION

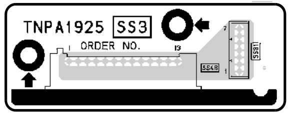
SS-BOARD (COMPONENT SIDE)
TNPA1923


TNPA1923
SS
①
ORDER NO.
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I

SS2-BOARD (COMPONENT SIDE)
TNPA1924


TNPA1924
ORDER NO.
SS2

SS3-BOARD (COMPONENT SIDE)
TNPA1925


TNPA1925
SS3
ORDER NO.

13 Block and Schematic Diagrams

13.1. Schematic Diagram Notes

Important Safety Notice

Components identified by △ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

Notes:

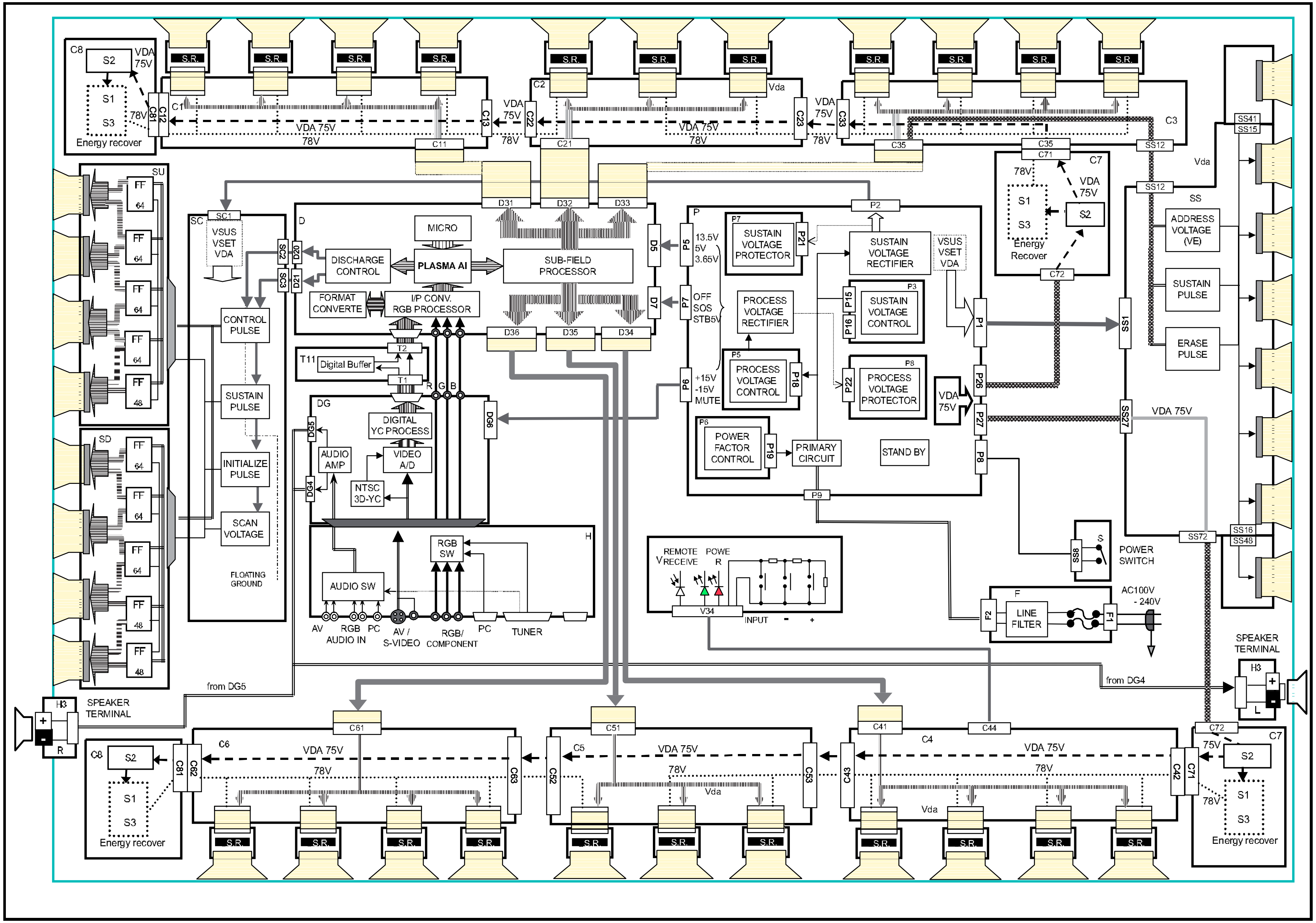
1. **Resistor**
   All resistors are cabon 1/4W resistor, unless marked as follows:
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
   ○ : Nonflammable ⊠ : Metal Oxide
   △ : Solid ◎ : Metal Film
   ⧄ : Wire Wound ⊗ : Fuse:
2. **Capacitor**
   All capacitors are ceramic 50V capacitor, unless marked as follows:
   Unit of capacitance is μF, unless otherwise noted.
   ⊗ : Temperature Compensation +‖ : Electrolytic
   Ⓜ : Polyester NP‖ : Bipolar
   ⓜ : Metalized Polyester Ⓣ : Dipped Tantalum
   ⊠ : Polypropylene Ⓩ : Z-Type
3. Coil
   Unit of inductance is μF, unless otherwise noted.
4. Test Point
   ⚲ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold) ⏚ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source .... AC 220V-240V, 50/60Hz
   (A, B and E Version)
   AC 120V, 50/60Hz (U Version)
   Receiving Signal .... Colour Bar signal (RF)
   All customer's controls .... Maximum positions
7. Number in red circle indicates waveform nember.
   (See waveform pattern table.)
8. When arrow mark (↗) is found, connection is easily found from the direction of arrow

9. Indicates the major signal flow. : Video ➡ Audio ⇨
10. This schematic diagram is the latest at the time of printing and subject to change without

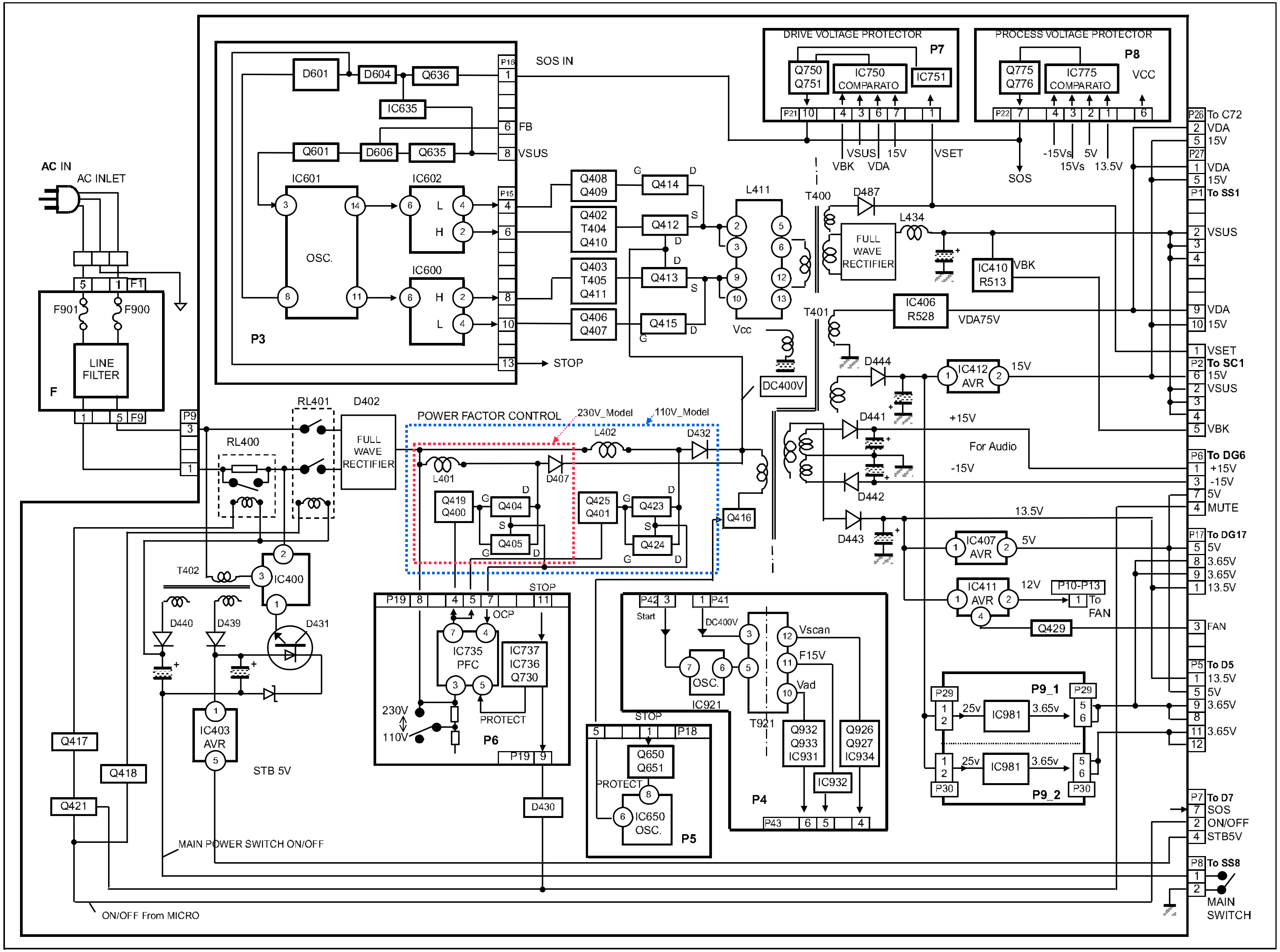
Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
   Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
   MA150- MA162 (Replacement part)

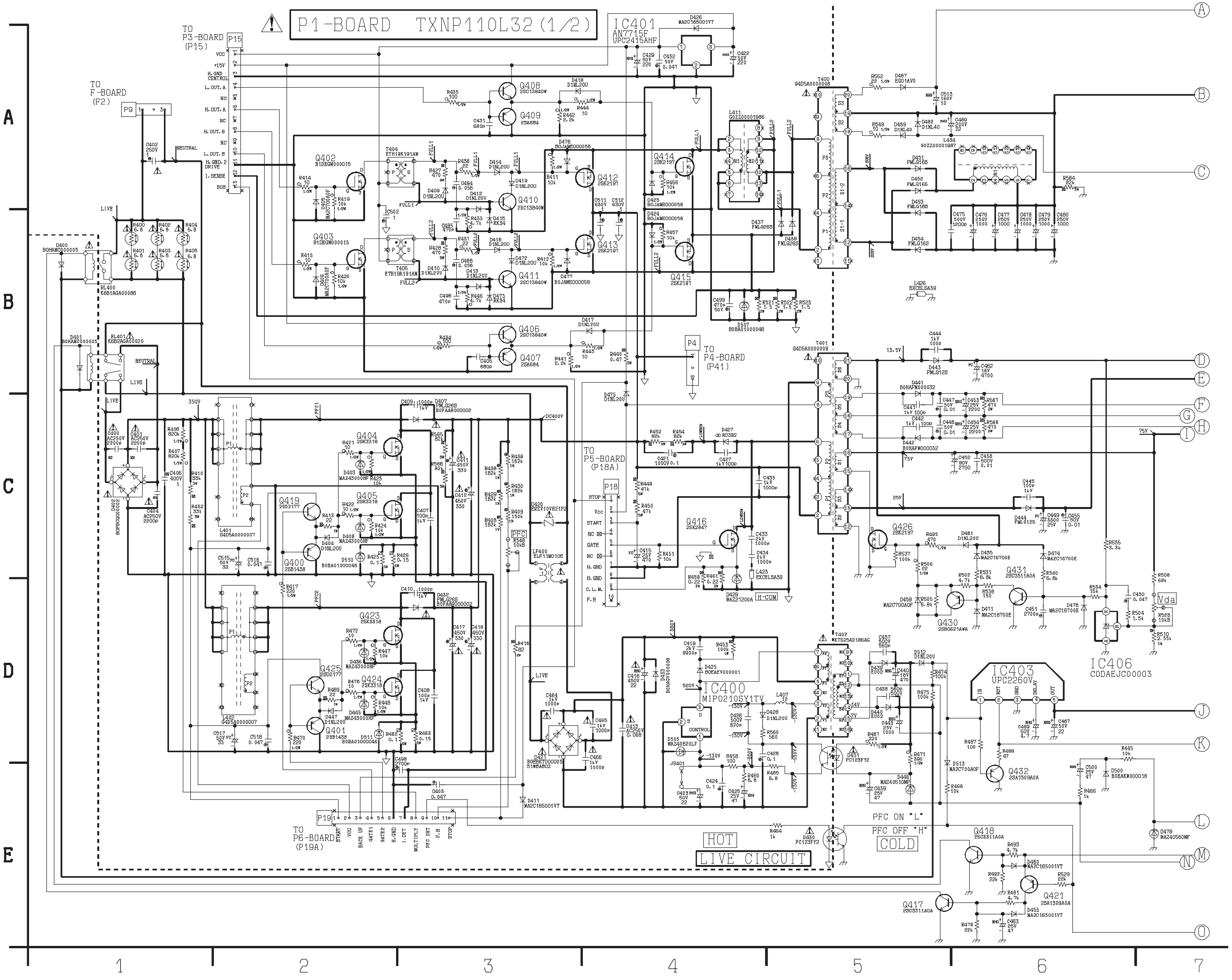
13.2. Main Block Diagram


C8
S2
VDA 75V
S1
S3
78V
C81
C12
Energy recover
C1
VDA 75V
78V
C11
C13
C22
C2
C21
Vda
C23
C33
C3
C35
C71
C7
SS12
SS41
SS15
S.R.
SU
FF
64
48
SD
SC
SC1
VSUS
VSET
VDA
SC2
SC3
CONTROL PULSE
SUSTAIN PULSE
INITIALIZE PULSE
SCAN VOLTAGE
FLOATING GROUND
D
D20
D21
DISCHARGE CONTROL
MICRO
PLASMA AI
SUB-FIELD PROCESSOR
FORMAT CONVERTE
I/P CONV. RGB PROCESSOR
D31
D32
D33
D34
D35
D36
D5
D7
T11
Digital Buffer
T2
T1
R
G
B
DG
DG5
DG4
DG6
DIGITAL YC PROCESS
AUDIO AMP
VIDEO A/D
NTSC 3D-YC
H
AUDIO SW
RGB SW
AV
RGB
PC
AUDIO IN
AV / S-VIDEO
RGB/ COMPONENT
TUNER
P
P5
P7
P6
13.5V
5V
3.65V
OFF
SOS
STB5V
+15V
-15V
MUTE
P21
SUSTAIN VOLTAGE PROTECTOR
PROCESS VOLTAGE RECTIFIER
P18
PROCESS VOLTAGE CONTROL
POWER FACTOR CONTROL
P19
PRIMARY CIRCUIT
P9
P2
SUSTAIN VOLTAGE RECTIFIER
P15
P16
P3
SUSTAIN VOLTAGE CONTROL
P22
P8
PROCESS VOLTAGE PROTECTOR
STAND BY
P1
P26
P27
VDA 75V
SS1
SS27
SS72
SS8
SS
ADDRESS VOLTAGE (VE)
SUSTAIN PULSE
ERASE PULSE
SS16
SS48
POWER SWITCH
S
F
F2
LINE FILTER
F1
AC100V - 240V
REMOTE RECEIVE
POWER
V34
INPUT
-
+
SPEAKER TERMINAL
H3
L
from DG4
from DG5
C72
C42
C43
C4
C41
C44
C5
C51
C52
C53
C6
C61
C62
C63

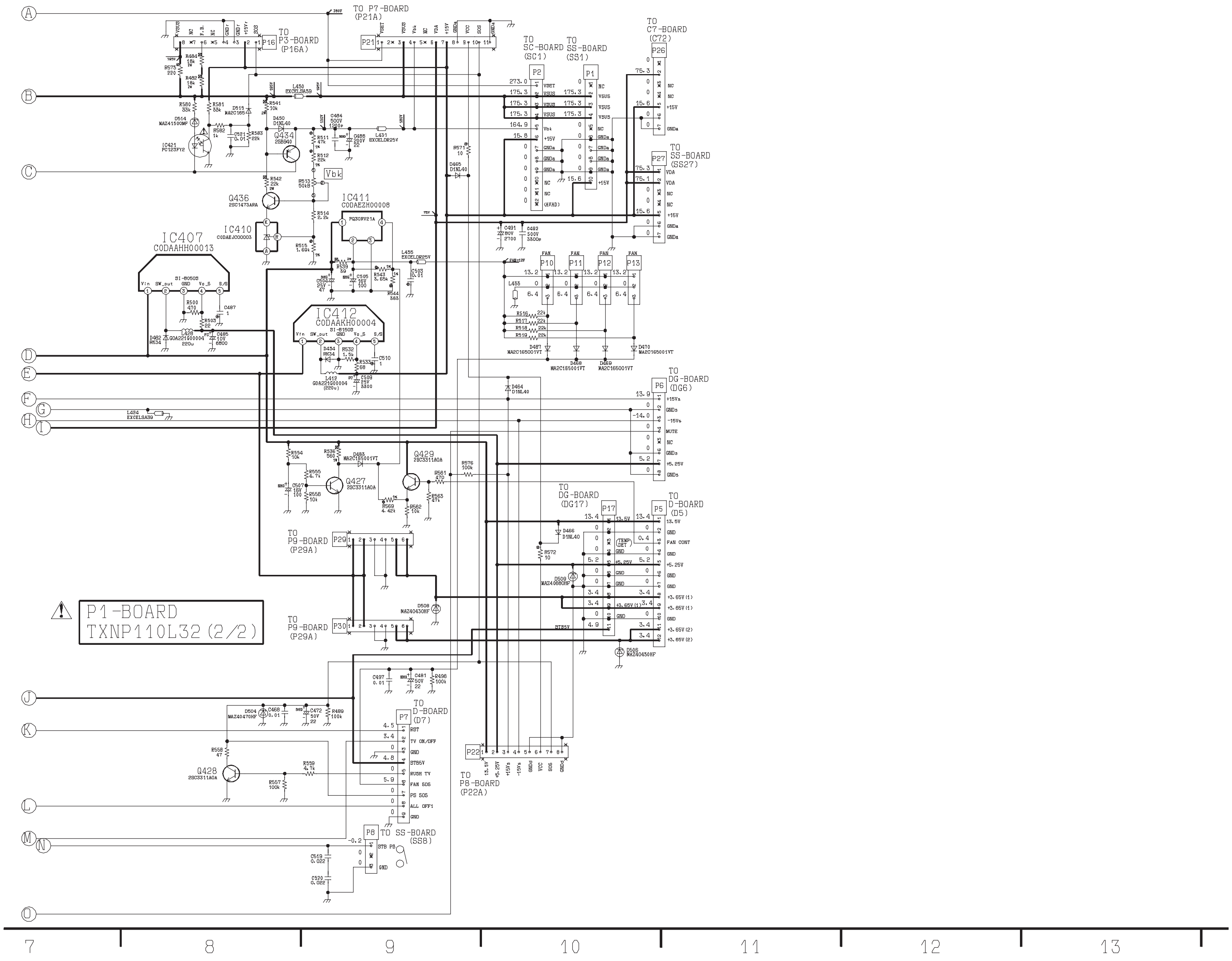
13.3. Power (F, P1, P3, P4, P5, P6, P7, P8 and P9 Board) Block Diagram


AC IN
AC INLET
F901
F900
LINE FILTER
F
F1
F9
P9
RL400
RL401
D402
FULL WAVE RECTIFIER
POWER FACTOR CONTROL
230V_Model
110V_Model
L401
L402
D407
D432
Q419 Q400
Q404
Q405
Q425 Q401
Q423
Q424
Q416
T402
IC400
D431
D440
D439
IC403 AVR
STB 5V
Q417
Q418
Q421
MAIN POWER SWITCH ON/OFF
ON/OFF From MICRO
P3
D601
D604
Q636
IC635
Q601
D606
Q635
IC601
OSC.
IC602
IC600
L
H
P16
SOS IN
FB
VSUS
P15
STOP
Q408 Q409
Q402 T404 Q410
Q403 T405 Q411
Q406 Q407
Q414
Q412
Q413
Q415
G
D
S
L411
Vcc
T400
T401
D487
L434
FULL WAVE RECTIFIER
IC410 R513
VBK
IC406 R528
VDA75V
DC400V
D444
IC412 AVR
15V
D441
+15V
For Audio
-15V
D442
D443
13.5V
IC407 AVR
5V
IC411 AVR
12V
P10-P13
To FAN
Q429
P6
OCP
IC735 PFC
IC737 IC736 Q730
PROTECT
230V
110V
P19
D430
P42
P41
Start
DC400V
OSC.
IC921
T921
Vscan
F15V
Vad
Q932 Q933 IC931
Q926 Q927 IC934
IC932
P43
P4
STOP
P18
Q650 Q651
PROTECT
IC650 OSC.
P5
DRIVE VOLTAGE PROTECTOR
P7
Q750 Q751
IC750 COMPARATO
IC751
P21
VSUS
VBK
VDA
VSET
PROCESS VOLIAGE PROTECTOR
P8
Q775 Q776
IC775 COMPARATO
VCC
P22
SOS
-15Vs
15Vs
5V
13.5V
P29
P30
P9_1
P9_2
IC981
25v
3.65v
P26 To C72
2 VDA
5 15V
P27
1 VDA
5 15V
P1 To SS1
2 VSUS
3
4
9 VDA
10 15V
1 VSET
P2 To SC1
6 15V
2 VSUS
3
4
5 VBK
P6 To DG6
1 +15V
3 -15V
7 5V
4 MUTE
P17 To DG17
5 5V
8 3.65V
9 3.65V
1 13.5V
3 FAN
P5 To D5
1 13.5V
5 5V
9 3.65V
8
11 3.65V
12
P7 To D7
7 SOS
2 ON/OFF
4 STB5V
P8 To SS8
1
2
MAIN SWITCH

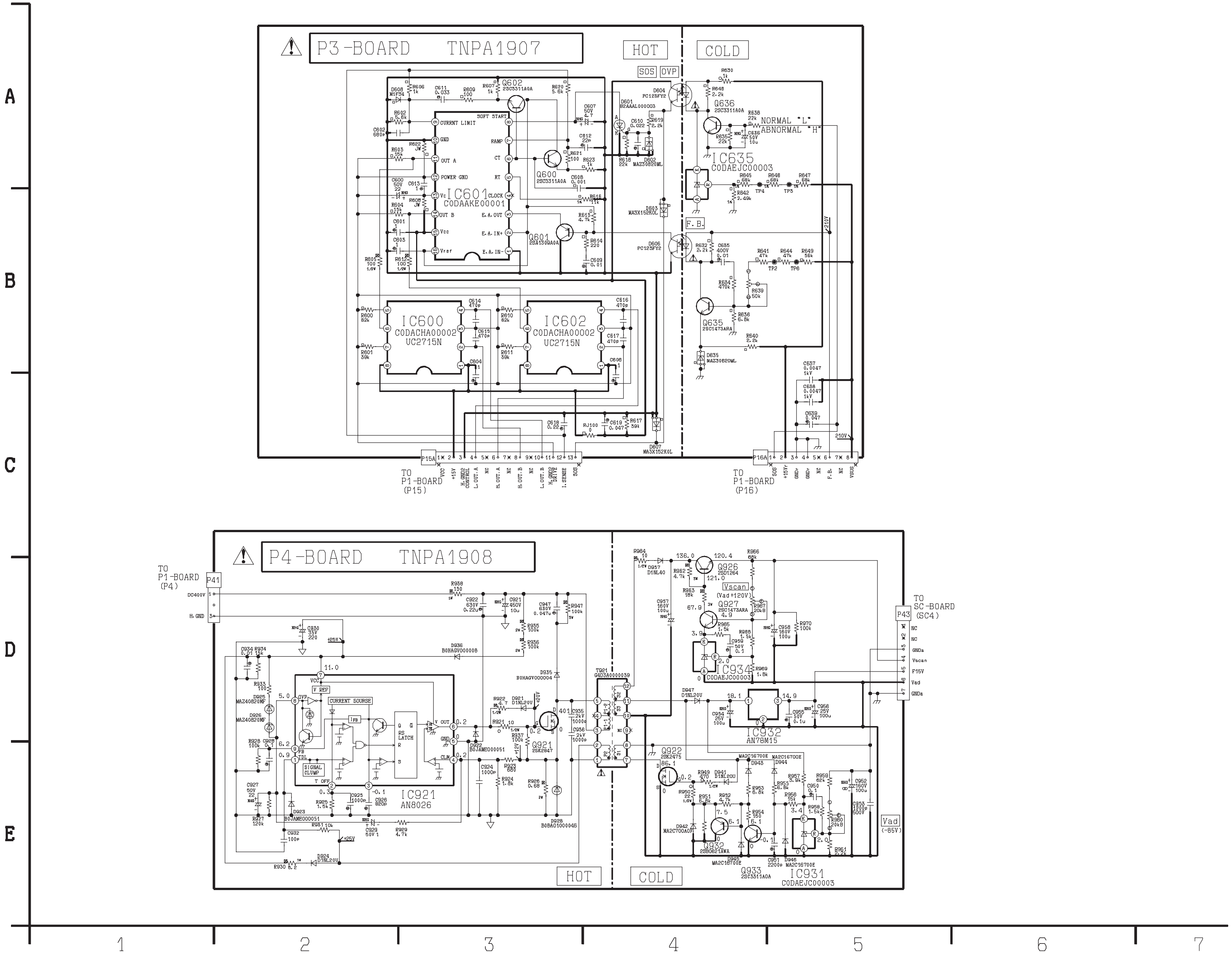
13.4. P1-Board (1/2) Schematic Diagram


P1-BOARD TXNP110L32(1/2)
IC401
AN7715F
UPC2415AHF
TO P3-BOARD (P15)
P15
TO F-BOARD (F2)
P9
TO P4-BOARD (P41)
P4
TO P5-BOARD (P18A)
P18
TO P6-BOARD (P19A)
P19
IC400
MIP0210SY1TV
IC403
UPC2260V
IC406
C0DAEJC00003
T400
T401
T402
T404
T405
Q400
Q401
Q402
Q403
Q404
Q405
Q406
Q407
Q408
Q409
Q410
Q411
Q412
Q413
Q414
Q415
Q416
Q417
Q418
Q419
Q421
Q423
Q424
Q425
Q426
Q430
Q431
Q432
RL400
RL401
L401
L402
L411
L434
LF400
PFC
H-COM
Vda
HOT
LIVE CIRCUIT
COLD
PFC ON "L"
PFC OFF "H"
LIVE
NEUTRAL
350V
75V
25V
13.5V
VCC
+15V
H.GND CONTROL
L.OUT.A
NC
H.OUT.A
H.OUT.B
L.OUT.B
H.GND.2 DRIVE
I.SENSE
SOS
STOP
Vcc
START
GATE
H.GND
C.L.M.
F.B
BACK UP
GATE1
GATE2
I.DET
MULTIPLY
PFC DET
FULL1
FULL2
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
1
2
3
4
5
6
7

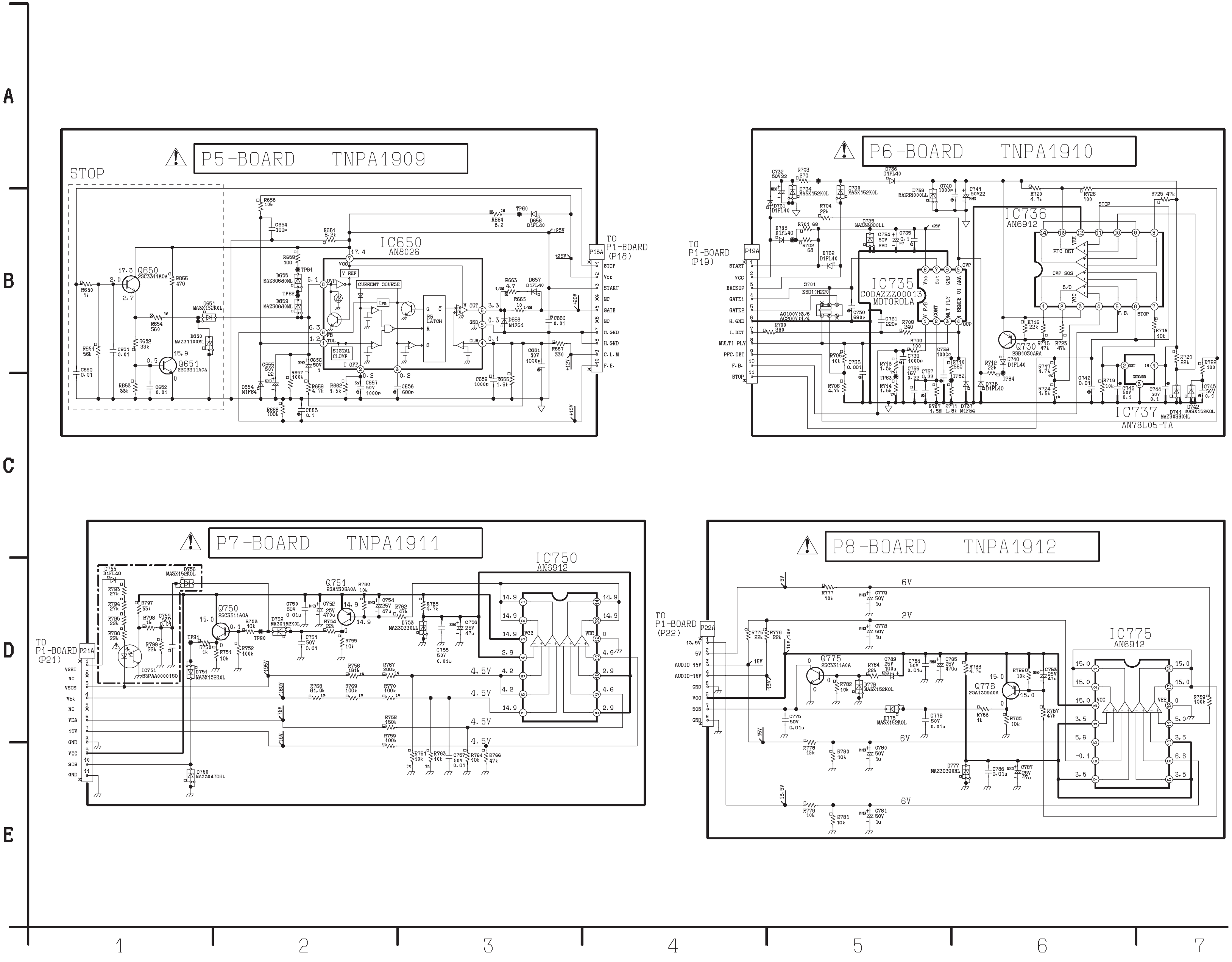
13.5. P1-Board (2/2) Schematic Diagram


TO P7-BOARD (P21A)
TO P3-BOARD (P16A)
TO SC-BOARD (SC1)
TO SS-BOARD (SS1)
TO C7-BOARD (C72)
TO SS-BOARD (SS27)
TO DG-BOARD (DG6)
TO DG-BOARD (DG17)
TO D-BOARD (D5)
TO D-BOARD (D7)
TO P8-BOARD (P22A)
TO P9-BOARD (P29A)
TO SS-BOARD (SS8)
P1 P2 P5 P6 P7 P8 P10 P11 P12 P13 P16 P17 P21 P22 P26 P27 P29 P30
IC407 C0DAAHH00013
IC410 C0DAEJC00003
IC411 C0DAEZH00008
IC412 C0DAAKH00004
Q427 2SC3311A0A
Q428 2SC3311A0A
Q429 2SC3311A0A
Q434 2SB940
Q436 2SC1473ARA
IC421 PC123FY2
Vbk
FAN
STB5V
P1-BOARD
TXNP110L32(2/2)
A B C D E F G H I J K L M N O
7 8 9 10 11 12 13

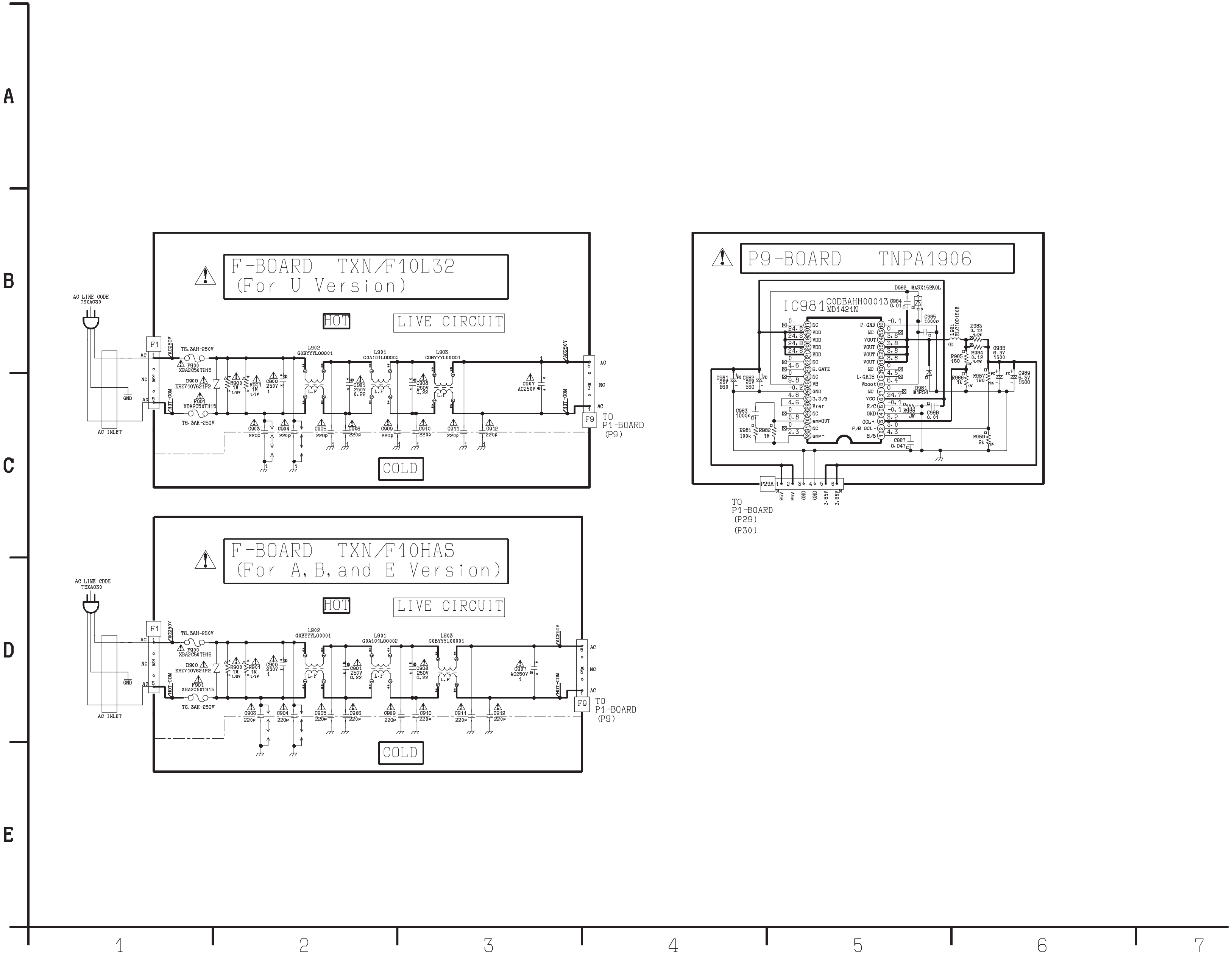
13.6. P3 and P4-Board Schematic Diagram


P3-BOARD TNPA1907
HOT
COLD
SOS
OVP
F.B.
IC601 C0DAAKE00001
IC600 C0DACHA00002 UC2715N
IC602 C0DACHA00002 UC2715N
IC635 C0DAEJC00003
Q600 2SC3311A0A
Q601 2SA1309A0A
Q602 2SC3311A0A
Q635 2SC1473ARA
Q636 2SC3311A0A
D604 PC123FY2
D606 PC123FY2
NORMAL "L"
ABNORMAL "H"
210V
TO P1-BOARD (P15)
TO P1-BOARD (P16)
P15A
P16A
P4-BOARD TNPA1908
IC921 AN8026
IC932 AN78M15
IC934 C0DAEJC00003
IC931 C0DAEJC00003
Q921 2SK2847
Q922 2SK2475
Q926 2SD1264
Q927 2SC1473ARA
Q932 2SB0621AVA
Q933 2SC3311A0A
T921 G4D3A0000039
Vscan
Vscan (Vad+120V)
Vad (-85V)
TO P1-BOARD (P4)
P41
TO SC-BOARD (SC4)
P43
A
B
C
D
E
1
2
3
4
5
6
7

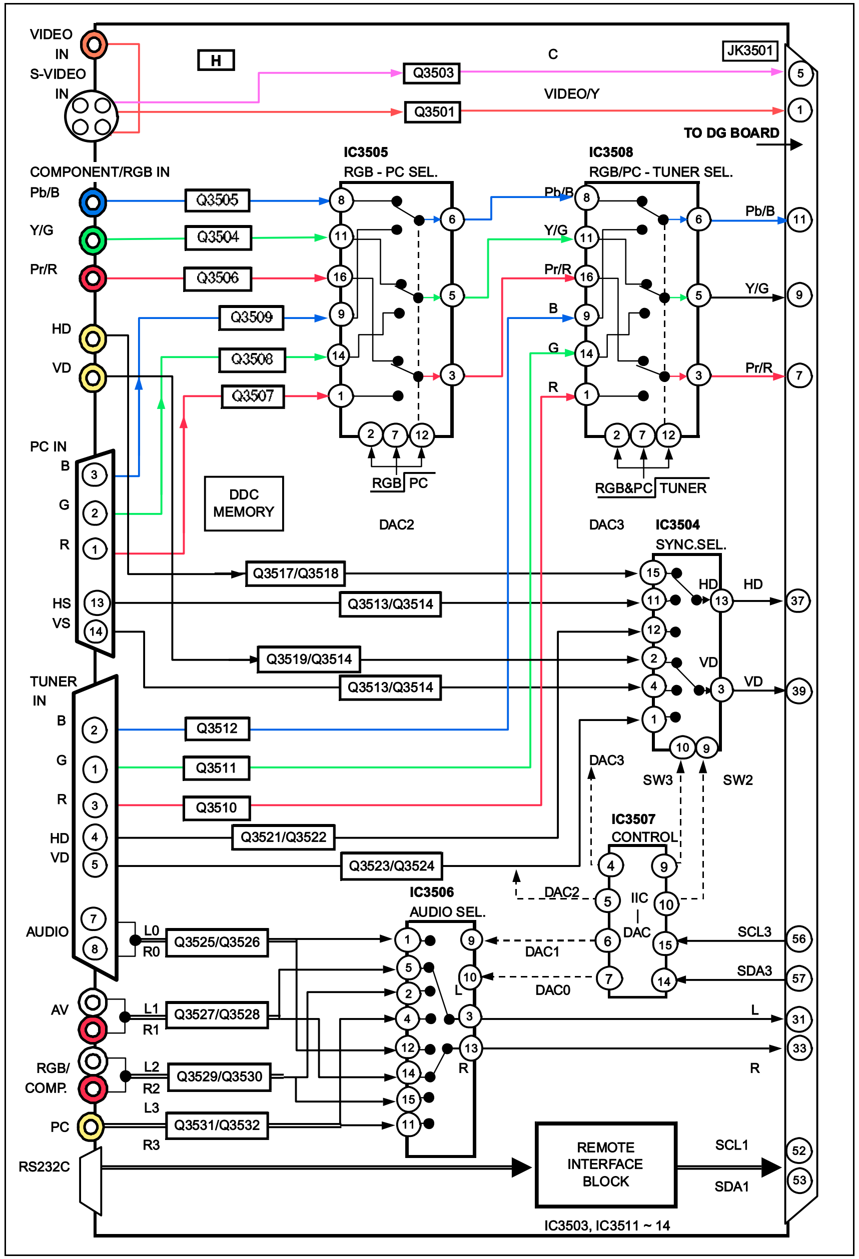
13.7. P5, P6, P7 and P8-Board Schematic Diagram


A
B
C
D
E
1
2
3
4
5
6
7
P5-BOARD TNPA1909
STOP
IC650
AN8026
Q650
2SC3311A0A
Q651
2SC3311A0A
TO
P1-BOARD
(P18)
P18A
STOP
Vcc
START
NC
GATE
NC
H.GND
H.GND
C.L.M
F.B.
P6-BOARD TNPA1910
IC735
C0DAZZZ00013
MOTOROLA
IC736
AN6912
IC737
AN78L05-TA
Q730
2SB1030ARA
TO
P1-BOARD
(P19)
P19A
START
VCC
BACKUP
GATE1
GATE2
H.GND
I.DET
MULTI PLY
PFC.DET
F.B.
STOP
P7-BOARD TNPA1911
IC750
AN6912
Q750
2SC3311A0A
Q751
2SA1309A0A
IC751
B3PAA0000150
TO
P1-BOARD
(P21)
P21A
VSET
NC
VSUS
Vbk
NC
VDA
15V
GND
VCC
SOS
GND
P8-BOARD TNPA1912
IC775
AN6912
Q775
2SC3311A0A
Q776
2SA1309A0A
TO
P1-BOARD
(P22)
P22A
13.5V
5V
AUDIO 15V
AUDIO-15V
GND
VCC
SOS
GND

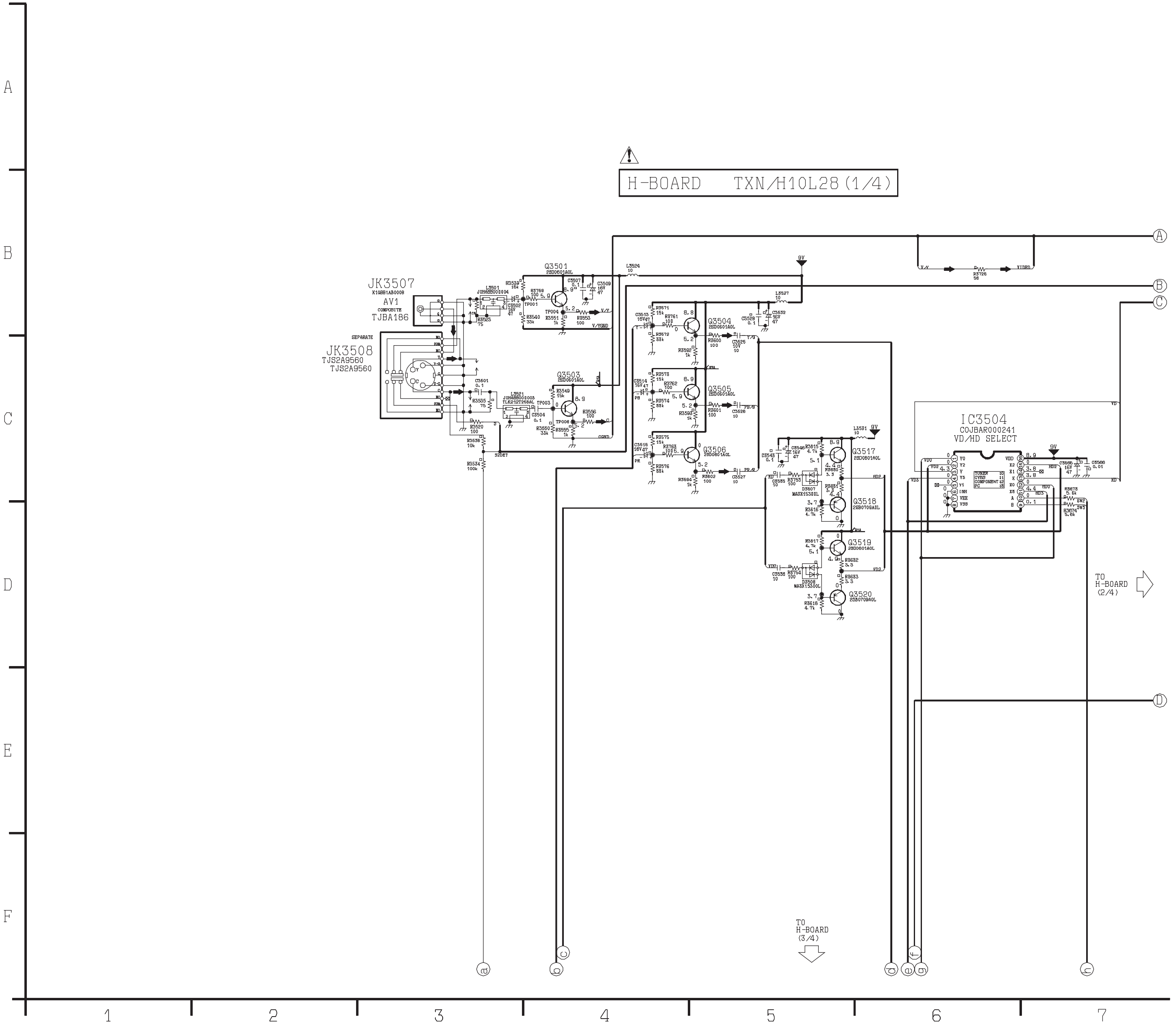
13.8. P9 and F-Board Schematic Diagram


A
B
C
D
E
1
2
3
4
5
6
7
F-BOARD TXN/F10L32
(For U Version)
HOT
LIVE CIRCUIT
COLD
AC LINE CODE
TSXA030
AC INLET
GND
F1
AC
NC
AC250V
HOT-COM
T6.3AH-250V
F900
XBA2C50TH15
D900
ERZV10V621P2
F901
XBA2C50TH15
R900
1M
1/2W
R901
1M
1/2W
C900
250V
1
L902
G0BYYYL00001
L901
G0A101L00002
L903
G0BYYYL00001
L.F
C901
250V
0.22
C908
250V
0.22
C907
AC250V
1
C903
220p
C904
220p
C905
220p
C906
220p
C909
220p
C910
220p
C911
220p
C912
220p
F9
TO
P1-BOARD
(P9)
F-BOARD TXN/F10HAS
(For A, B, and E Version)
P9-BOARD TNPA1906
IC981
C0DBAHH00013
MD1421N
NC
VDD
H.GATE
VB
GND
3.3/5
Vref
ampOUT
amp-
P.GND
VOUT
L.GATE
Vboot
VCC
R/C
OCL+
F/B OCL-
S/S
D982
MA3X152K0L
C984
0.01
C985
1000p
LB81
ELC10D180E
R983
0.12
1/2W
R984
0.12
1/2W
R985
180
R986
1k
R987
180
C988
6.3V
1500
C989
6.3V
1500
D981
M1FS4
R988
JW
C986
0.01
C987
0.047
R989
2k
C981
25V
560
C982
25V
560
C983
1000p
R981
100k
R982
1M
P29A
25V
GND
3.65V
TO
P1-BOARD
(P29)
(P30)

13.9. H-Board Block Diagram


VIDEO IN
S-VIDEO IN
H
Q3503
Q3501
C
VIDEO/Y
JK3501
TO DG BOARD
COMPONENT/RGB IN
Pb/B
Y/G
Pr/R
HD
VD
Q3505
Q3504
Q3506
Q3509
Q3508
Q3507
IC3505
RGB - PC SEL.
RGB
PC
DAC2
IC3508
RGB/PC - TUNER SEL.
RGB&PC
TUNER
DAC3
PC IN
B
G
R
HS
VS
DDC MEMORY
Q3517/Q3518
Q3513/Q3514
Q3519/Q3514
Q3513/Q3514
IC3504
SYNC.SEL.
HD
VD
SW3
SW2
TUNER IN
B
G
R
HD
VD
Q3512
Q3511
Q3510
Q3521/Q3522
Q3523/Q3524
IC3507
CONTROL
IIC
DAC
DAC2
DAC1
DAC0
SCL3
SDA3
L
R
AUDIO
L0
R0
AV
L1
R1
RGB/ COMP.
L2
R2
L3
PC
R3
Q3525/Q3526
Q3527/Q3528
Q3529/Q3530
Q3531/Q3532
IC3506
AUDIO SEL.
RS232C
REMOTE INTERFACE BLOCK
IC3503, IC3511 ~ 14
SCL1
SDA1
5
1
11
9
7
37
39
56
57
31
33
52
53

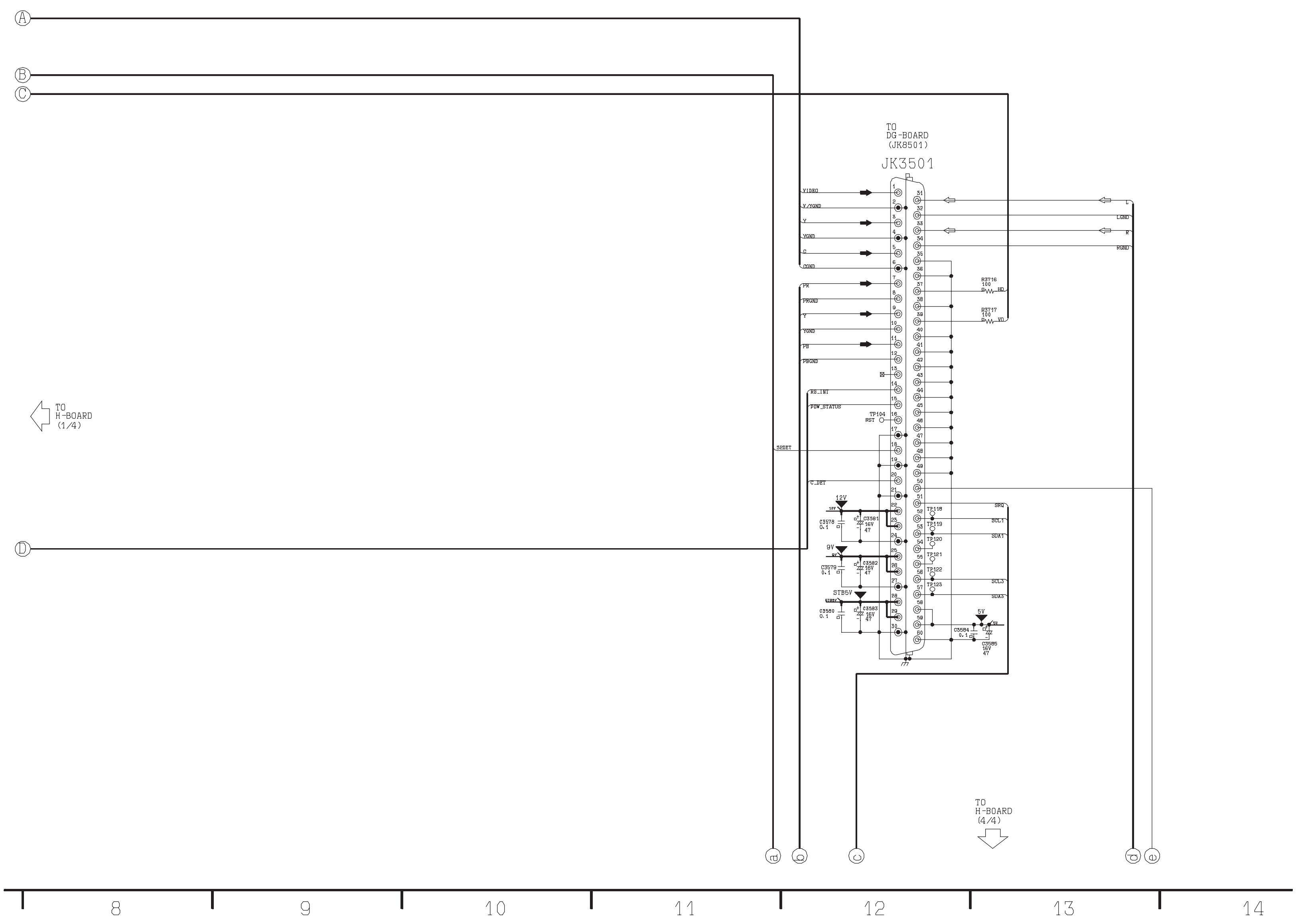
13.10. H-Board (1/4) Schematic Diagram


H-BOARD TXN/H10L28(1/4)
JK3507
K1GBB1A00009
AV1
COMPOSITE
TJBA186
SEPARATE
JK3508
TJS2A9560
TJS2A9560
Q3501
2SD0601A0L
Q3503
2SD0601A0L
Q3504
2SD0601A0L
Q3505
2SD0601A0L
Q3506
2SD0601A0L
Q3517
2SD0601A0L
Q3518
2SB0709A0L
Q3519
2SD0601A0L
Q3520
2SB0709A0L
IC3504
C0JBAR000241
VD/HD SELECT
L3524
L3527
L3581
9V
TO
H-BOARD
(2/4)
TO
H-BOARD
(3/4)
A
B
C
D
E
F
1
2
3
4
5
6
7

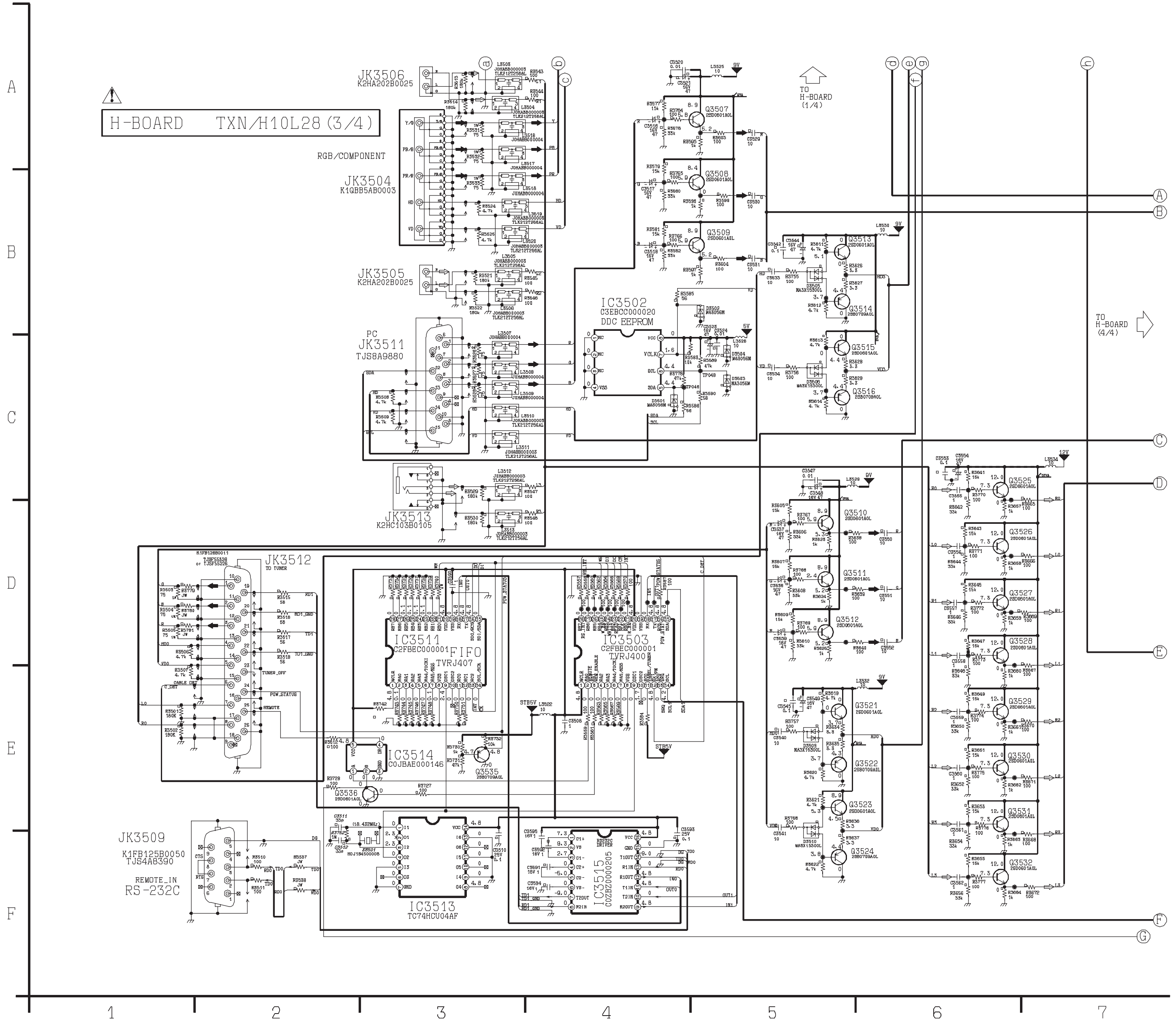
13.11. H-Board (2/4) Schematic Diagram

⚠

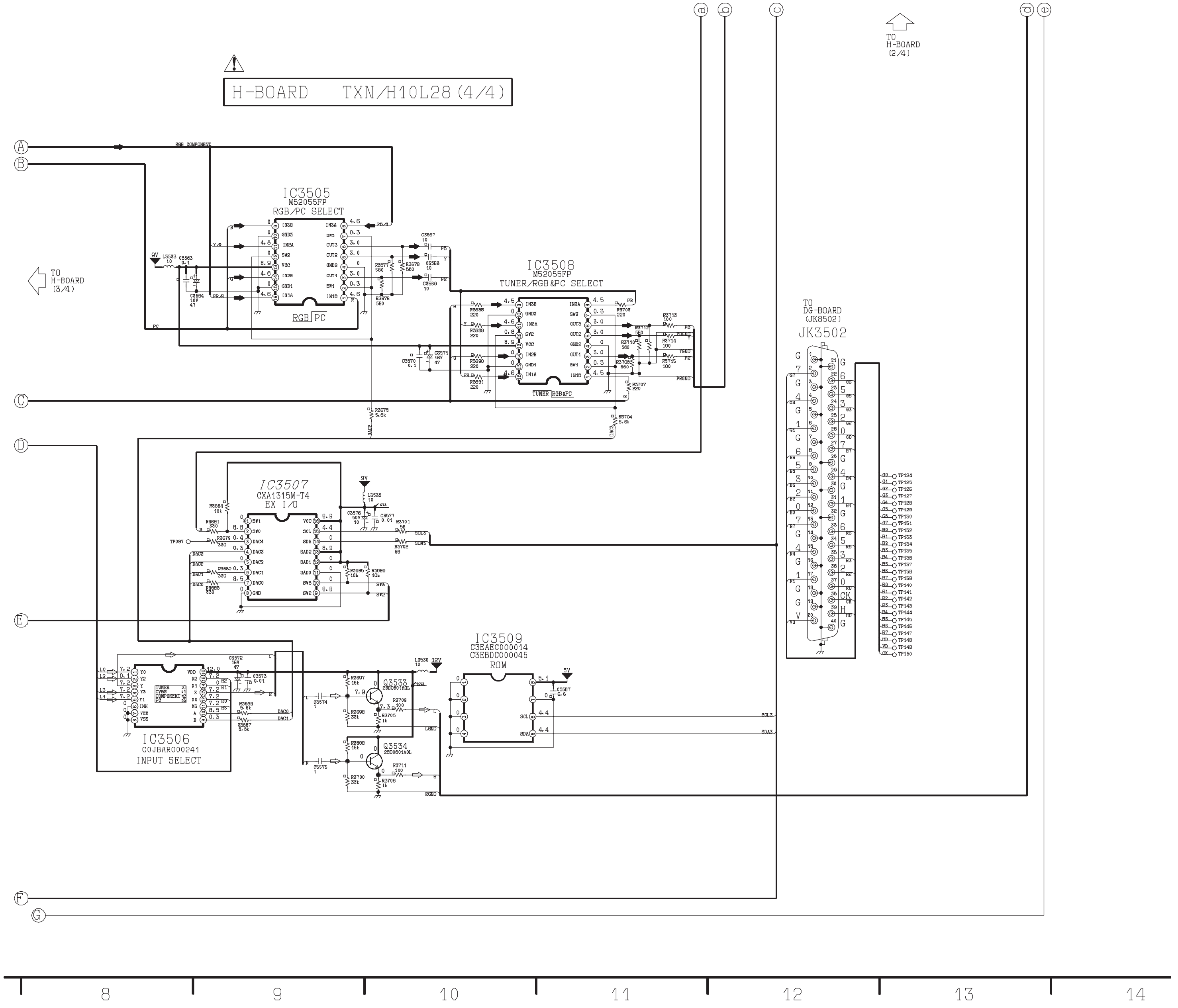
H-BOARD TXN/H10L28 (2/4)


A
B
C
D
TO H-BOARD (1/4)
TO DG-BOARD (JK8501)
JK3501
VIDEO
V/YGND
Y
YGND
C
CGND
PR
PRGND
Y
YGND
PB
PBGND
RS_INT
POW_STATUS
TP104 RST
52DET
C_DET
12V
C3578 0.1
C3581 16V 47
9V
C3579 0.1
C3582 16V 47
STB5V
C3580 0.1
C3583 16V 47
L
LGND
R
RGND
R3716 100
HD
R3717 100
VD
SRQ
SCL1
SDA1
SCL3
SDA3
TP118
TP119
TP120
TP121
TP122
TP123
5V
C3584 0.1
C3585 16V 47
TO H-BOARD (4/4)
a
b
c
d
e
8
9
10
11
12
13
14

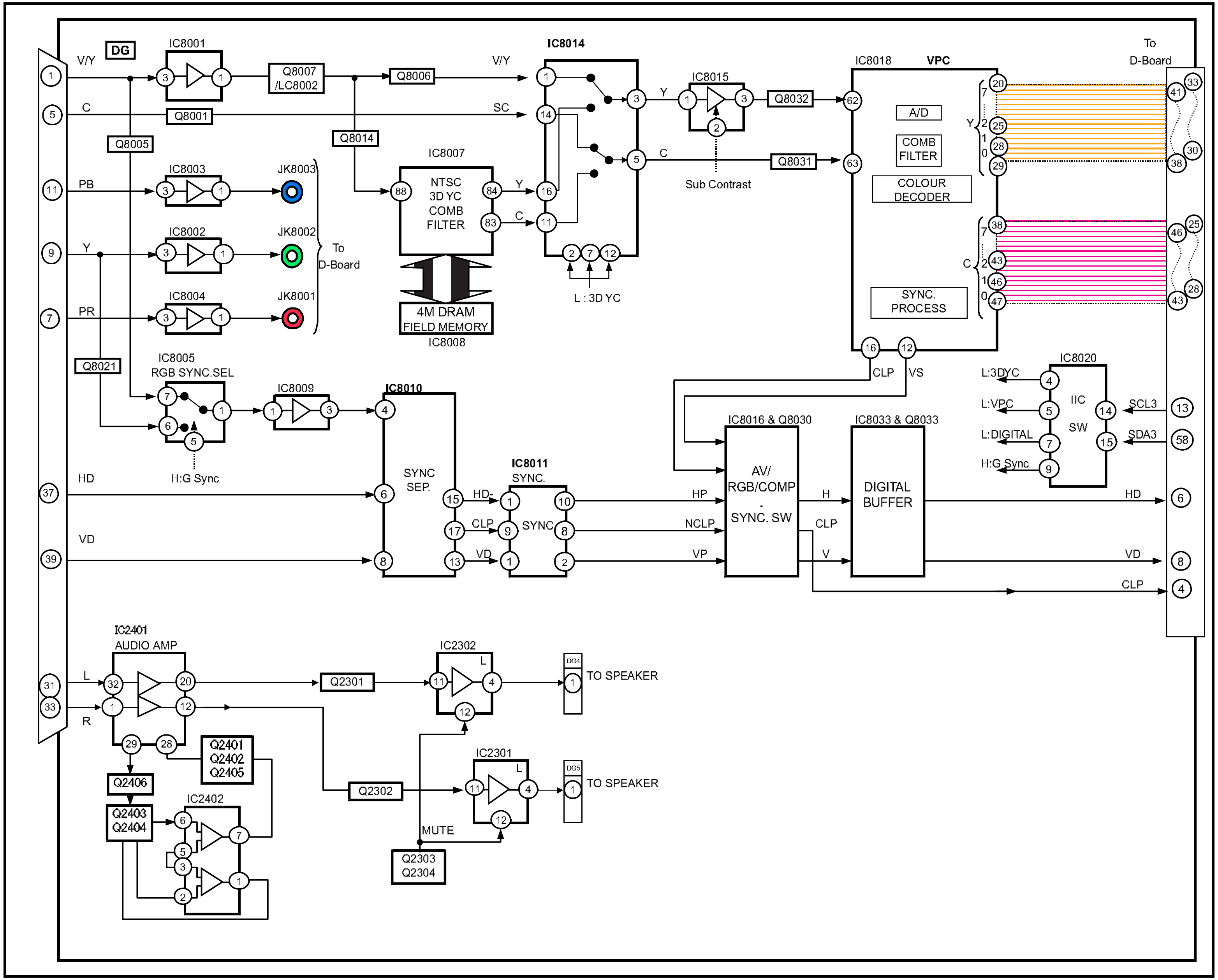
13.12. H-Board (3/4) Schematic Diagram


H-BOARD TXN/H10L28(3/4)
JK3506
K2HA202B0025
RGB/COMPONENT
JK3504
K1QBB5AB0003
JK3505
K2HA202B0025
PC
JK3511
TJS8A9880
JK3513
K2HC103B0105
JK3512
TO TUNER
JK3509
K1FB125B0050
TJS4A6390
REMOTE_IN
RS-232C
IC3502
C3EBC0000020
DDC EEPROM
IC3511
C2FBEC000001
FIFO
TVRJ407
IC3503
C2FBEC000001
TVRJ400
IC3514
C0JBAE000146
IC3513
TC74HCU04AF
IC3515
C0ZBZ0000205
Q3507
Q3508
Q3509
Q3510
Q3511
Q3512
Q3513
Q3514
Q3515
Q3516
Q3521
Q3522
Q3523
Q3524
Q3525
Q3526
Q3527
Q3528
Q3529
Q3530
Q3531
Q3532
Q3535
Q3536
TO
H-BOARD
(1/4)
TO
H-BOARD
(4/4)
9V
12V
STB5V
A
B
C
D
E
F
G
a
b
c
d
e
f
g
h
1
2
3
4
5
6
7

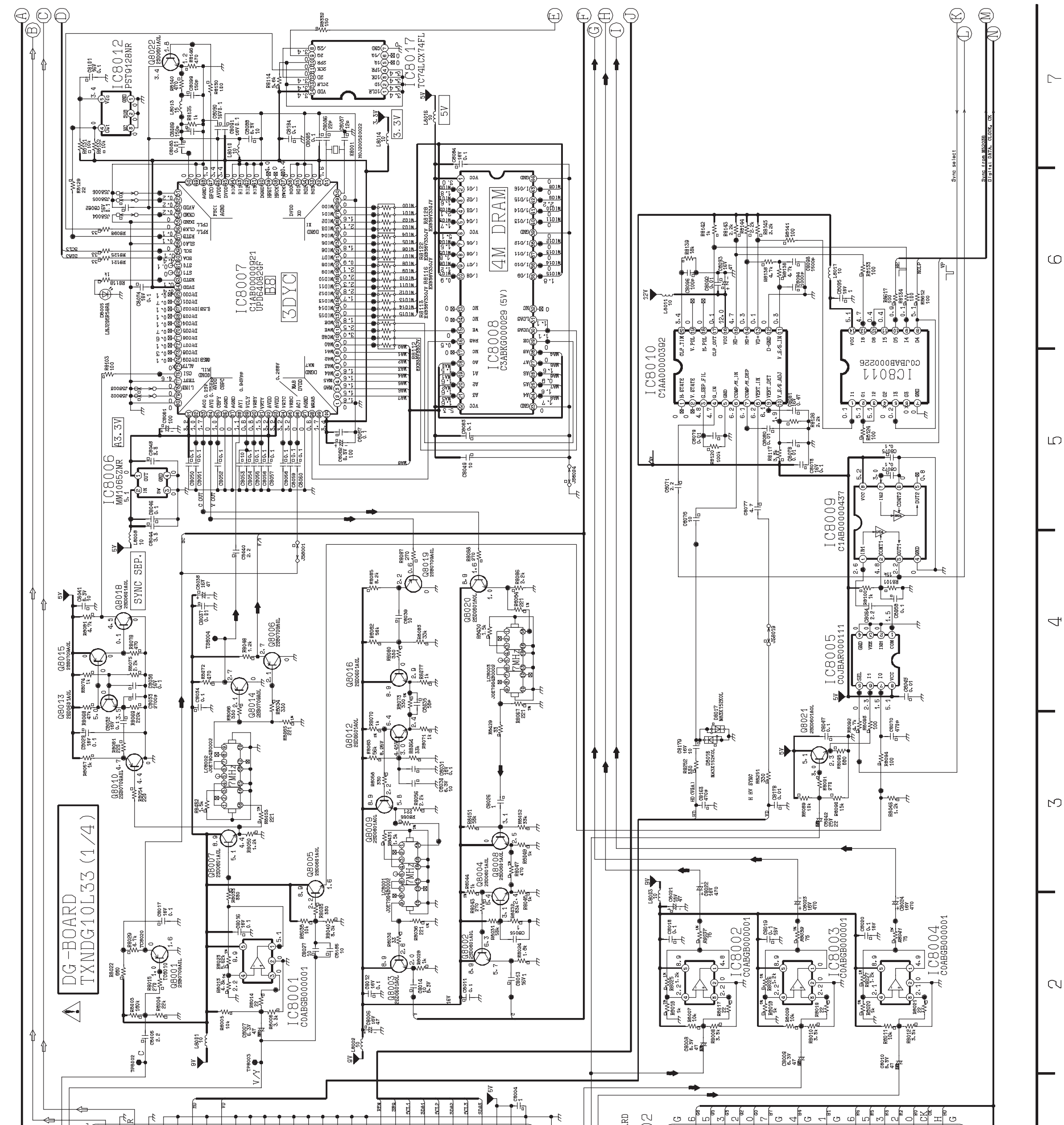
13.13. H-Board (4/4) Schematic Diagram


H-BOARD TXN/H10L28 (4/4)
IC3505
M52055FP
RGB/PC SELECT
RGB PC
IC3508
M52055FP
TUNER/RGB&PC SELECT
TUNER RGB&PC
IC3507
CXA1315M-T4
EX I/O
IC3509
C3EAEC000014
C3EBDC000045
ROM
IC3506
C0JBAR000241
INPUT SELECT
Q3533
Q3534
JK3502
TO DG-BOARD (JK8502)
TO H-BOARD (3/4)
TO H-BOARD (2/4)
RGB COMPONENT
PC
9V
12V
5V
TP097
SCL3
SDA3
A
B
C
D
E
F
G
a
b
c
d
e
8
9
10
11
12
13
14

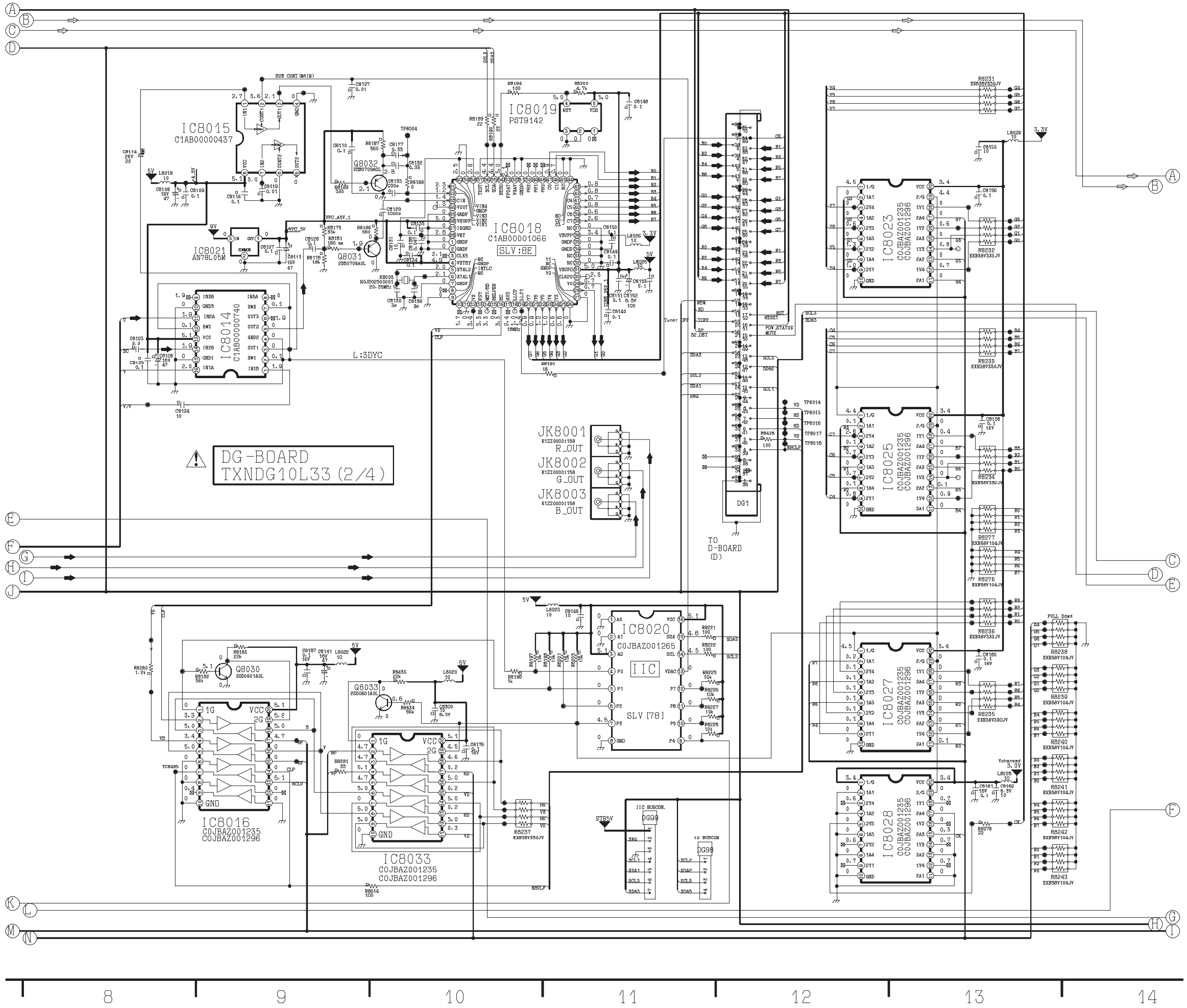
13.14. DG Board Block Diagram


DG
V/Y
C
PB
Y
PR
HD
VD
L
R
IC8001
Q8007 /LC8002
Q8006
Q8001
Q8005
Q8014
IC8003
IC8002
IC8004
JK8003
JK8002
JK8001
To D-Board
Q8021
IC8005 RGB SYNC.SEL
H:G Sync
IC8009
IC8010
SYNC SEP.
IC8007
NTSC 3D YC COMB FILTER
4M DRAM FIELD MEMORY
IC8008
IC8014
SC
L : 3D YC
IC8015
Sub Contrast
Q8032
Q8031
IC8018
VPC
A/D
COMB FILTER
COLOUR DECODER
SYNC. PROCESS
CLP
VS
To D-Board
IC8011 SYNC.
SYNC
HD
CLP
VD
HP
NCLP
VP
IC8016 & Q8030
AV/ RGB/COMP · SYNC. SW
H
CLP
V
IC8033 & Q8033
DIGITAL BUFFER
IC8020
IIC SW
L:3DYC
L:VPC
L:DIGITAL
H:G Sync
SCL3
SDA3
HD
VD
CLP
IC2401 AUDIO AMP
Q2401 Q2402 Q2405
Q2406
Q2403 Q2404
IC2402
Q2301
Q2302
IC2302
IC2301
MUTE
Q2303 Q2304
DG4
DG5
TO SPEAKER
TO SPEAKER

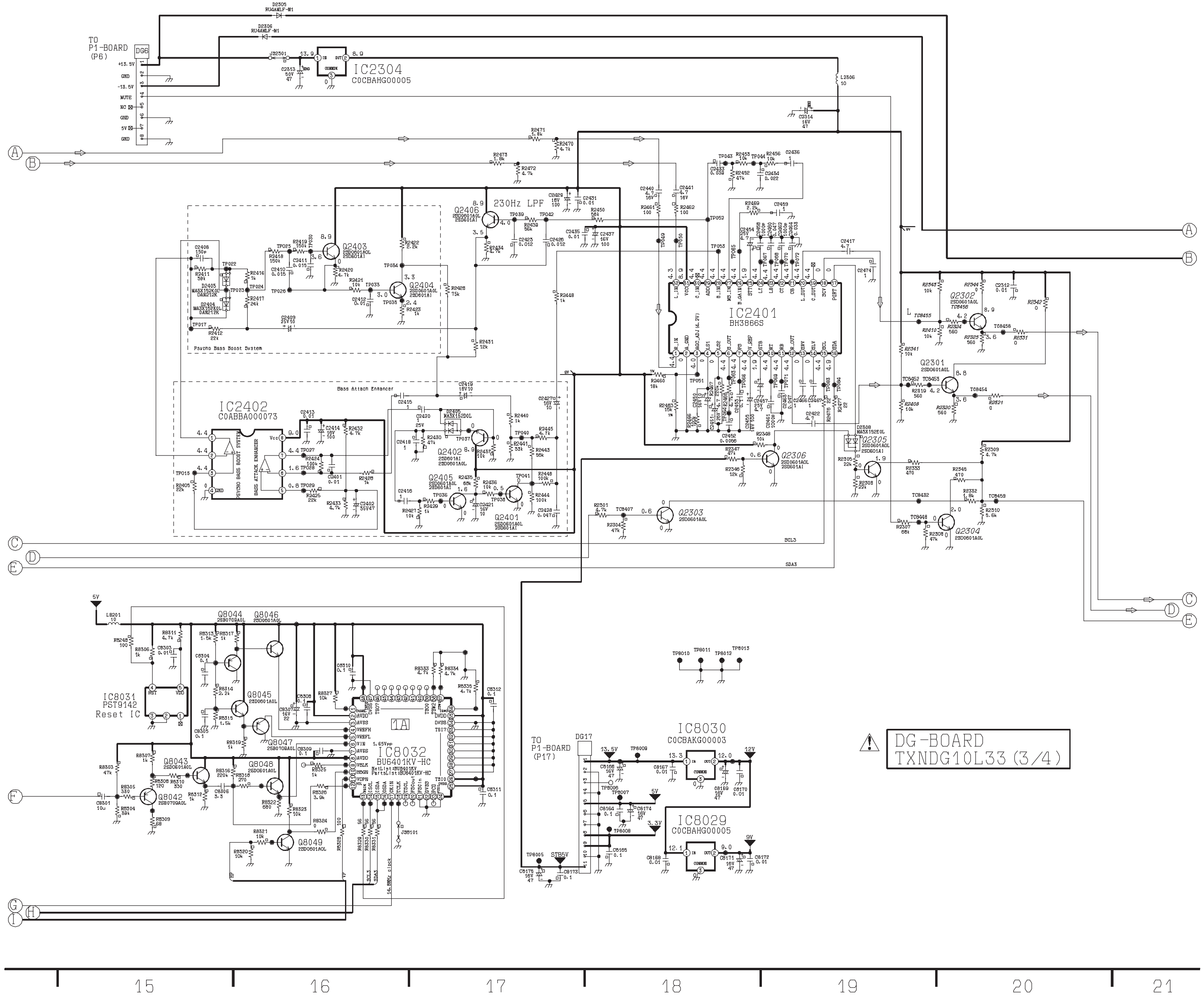
13.15. DG-Board (1/4) Schematic Diagram


DG-BOARD
TXNDG10L33 (1/4)
TO H-BOARD (JK3501)
JK8501
TO H-BOARD (JK3502)
JK8502
IC8001 C0ABGB000001
IC8002 C0ABGB000001
IC8003 C0ABGB000001
IC8004 C0ABGB000001
IC8005 C0JBAR000111
IC8006 NJM1065ZNR
IC8007 C1AB00000921 UPD64082GF 3DYC
IC8008 C3ABKG000029 (5V) 4M DRAM
IC8009 C1AB00000437
IC8010 C1AA00000392
IC8011 C0JBAB000226
IC8012 PST9128NR
IC8017 TC74LCX74FL
SYNC SEP.
3.3V
5V
12V
Q8001
Q8003
Q8004
Q8005
Q8006
Q8007
Q8008
Q8009
Q8010
Q8012
Q8013
Q8014
Q8015
Q8016
Q8018
Q8019
Q8020
Q8021
Q8022
Sync select
A
B
C
D
E
F
G
H
I
J
K
L
M
N
1
2
3
4
5
6
7

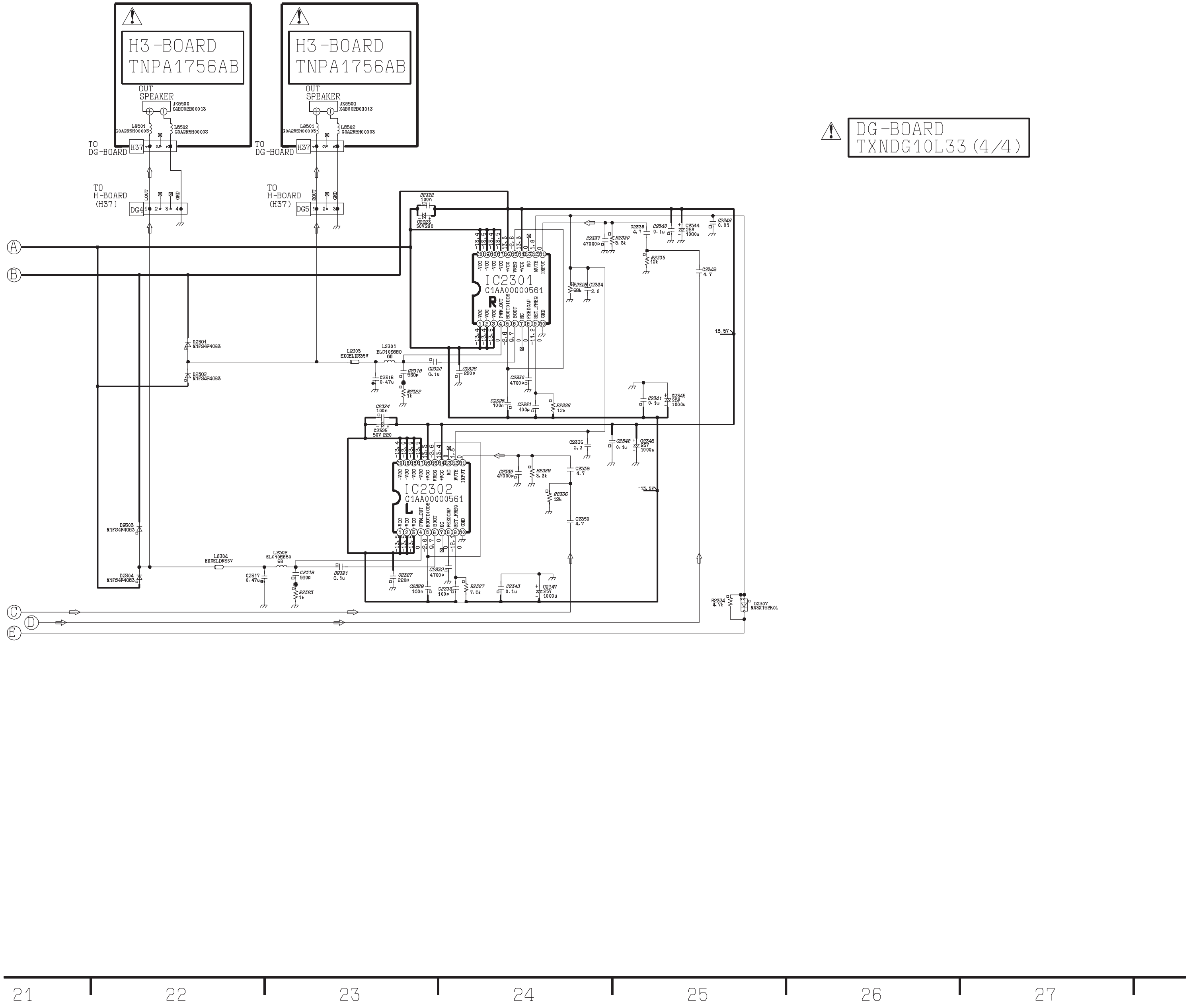
13.16. DG-Board (2/4) Schematic Diagram


DG-BOARD
TXNDG10L33 (2/4)
IC8015
C1AB00000437
IC8014
C1AB00000740
IC8021
AN78L05M
IC8018
C1AB00001066
SLV:8E
IC8019
PST9142
Q8032
Q8031
L:3DYC
JK8001
R_OUT
JK8002
G_OUT
JK8003
B_OUT
DG1
TO
D-BOARD
(D)
IC8023
C0JBAZ001235
C0JBAZ001296
IC8025
C0JBAZ001235
C0JBAZ001296
IC8027
C0JBAZ001235
C0JBAZ001296
IC8028
C0JBAZ001235
C0JBAZ001296
IC8020
C0JBAZ001265
IIC
SLV [78]
IC8016
C0JBAZ001235
C0JBAZ001296
IC8033
C0JBAZ001235
C0JBAZ001296
Q8030
Q8033
DG99
DG98
A
B
C
D
E
F
G
H
I
J
K
L
M
N
8
9
10
11
12
13
14

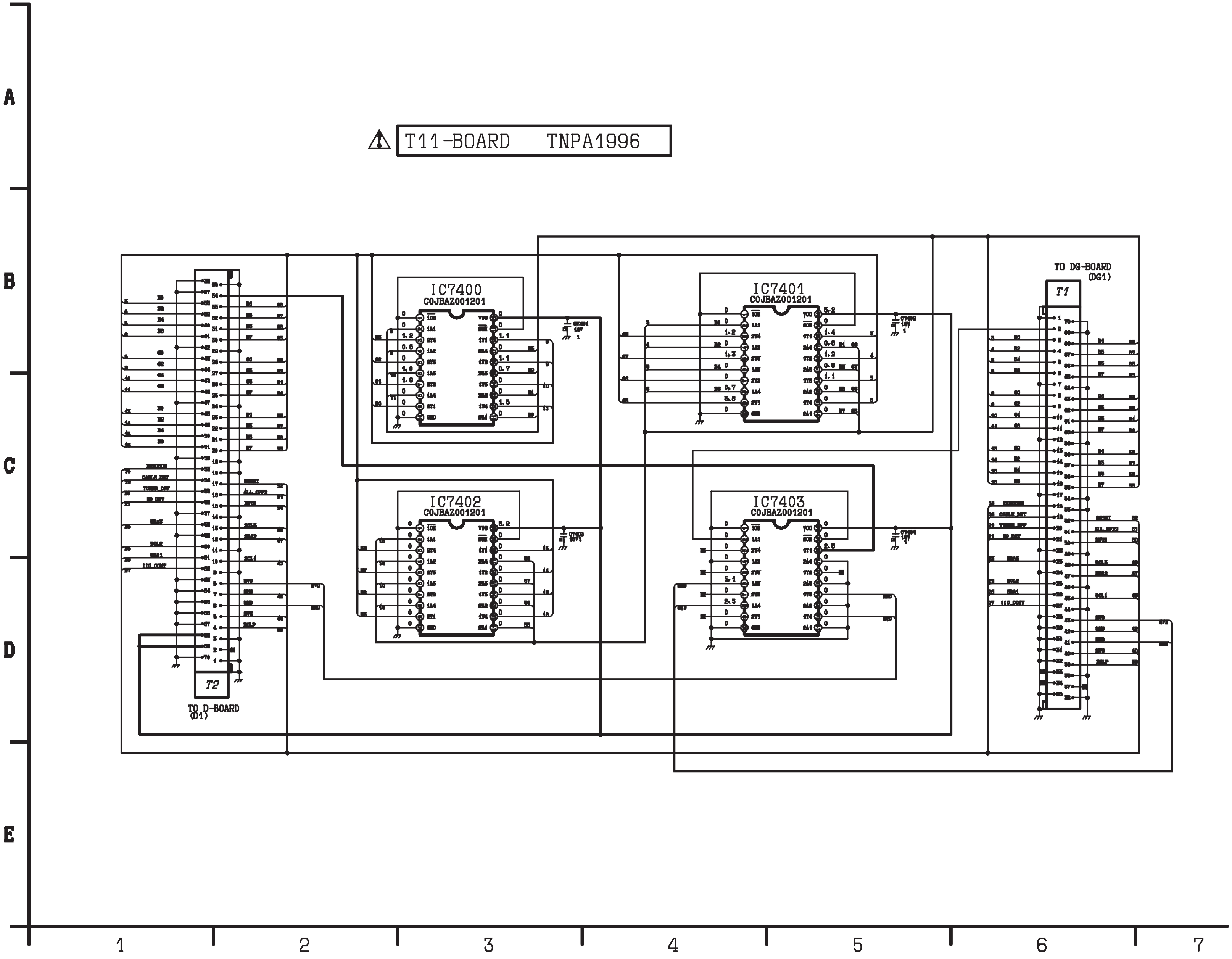
13.17. DG-Board (3/4) Schematic Diagram


TO P1-BOARD (P6)
DG6
+13.5V
GND
-13.5V
MUTE
NC
GND
5V
GND
IC2304
C0CBAHG00005
230Hz LPF
Q2406
Q2403
Q2404
Psycho Bass Boost System
IC2402
C0ABBA000073
Bass Attach Enhancer
Q2402
Q2405
Q2401
IC2401
BH3866S
Q2302
Q2301
Q2305
Q2306
Q2303
Q2304
SCL3
SDA3
IC8031
PST9142
Reset IC
Q8044
Q8046
Q8045
Q8047
Q8043
Q8048
Q8042
Q8049
IC8032
BU6401KV-HC
1A
14.3MHz clock
TO P1-BOARD (P17)
DG17
IC8030
C0CBAKG00003
IC8029
C0CBAHG00005
DG-BOARD
TXNDG10L33 (3/4)
A
B
C
D
E
F
G
H
I
15
16
17
18
19
20
21

13.18. DG-Board (4/4) Schematic Diagram


H3-BOARD
TNPA1756AB
OUT
SPEAKER
JK8500
K4BC02B00013
L8501
G0A2R5H00003
L8502
G0A2R5H00003
TO
DG-BOARD
H37
TO
H-BOARD
(H37)
DG4
LOUT
GND
DG5
ROUT
DG-BOARD
TXNDG10L33(4/4)
A
B
C
D
E
C2322
100n
C2323
50V220
IC2301
C1AA00000561
R
-VCC
+VCC
VREG
NC
MUTE
INPUT
PWM_OUT
BOOTDIODE
BOOT
FEEDCAP
SET_FREQ
GND
C2337
47000p
R2330
3.3k
C2338
4.7
C2340
0.1u
C2344
25V
1000u
C2348
0.01
R2335
12k
C2349
4.7
R2328
68k
C2334
2.2
13.5V
D2301
M1FS4F4063
D2302
M1FS4F4063
L2303
EXCELDR35V
L2301
ELC10E680
68
C2316
0.47u
C2318
560p
R2322
1k
C2320
0.1u
C2326
220p
C2330
4700p
C2328
100n
C2331
100p
R2326
12k
C2341
0.1u
C2345
25V
1000u
C2324
100n
C2325
50V 220
IC2302
C1AA00000561
L
C2335
2.2
C2342
0.1u
C2346
25V
1000u
C2336
47000p
R2329
3.3k
C2339
4.7
R2336
12k
C2350
4.7
-13.5V
D2303
M1FS4F4063
D2304
M1FS4F4063
L2304
EXCELDR35V
L2302
ELC10E680
68
C2317
0.47u
C2319
560p
R2323
1k
C2321
0.1u
C2327
220p
C2332
4700p
C2329
100n
C2333
100p
R2327
7.5k
C2343
0.1u
C2347
25V
1000u
R2334
4.7k
D2307
MA3X152K0L
21
22
23
24
25
26
27

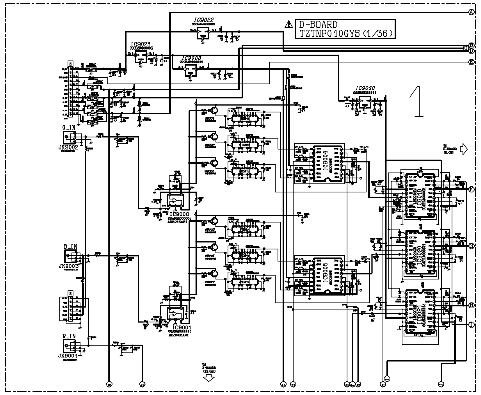
13.19. T11 Board Schematic Diagram

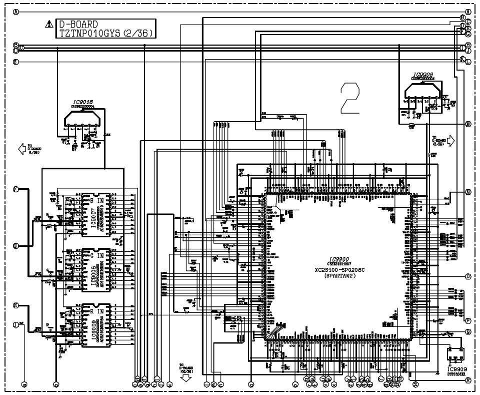

T11-BOARD TNPA1996
IC7400
C0JBAZ001201
IC7401
C0JBAZ001201
IC7402
C0JBAZ001201
IC7403
C0JBAZ001201
T1
TO DG-BOARD
(DG1)
T2
TO D-BOARD
(D1)
A
B
C
D
E
1
2
3
4
5
6
7

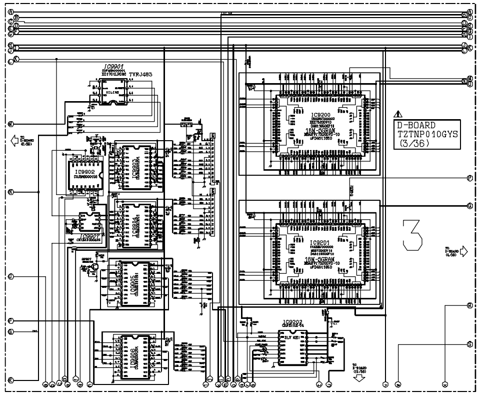
13.20. D-Board IC Location

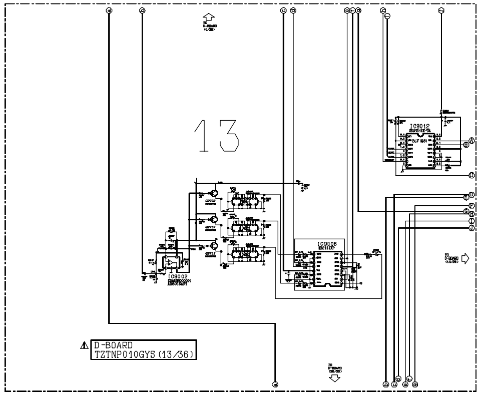
IC No.	*/36	Page
IC9000	1	95
IC9001	1	95
IC9002	13	107
IC9003	1	95
IC9004	1	95
IC9005	1	95
IC9006	13	107
IC9007	2	96
IC9008	2	96
IC9009	2	96
IC9010	1	95
IC9012	13	107
IC9014	4	98
IC9015	25	119
IC9016	25	119
IC9017	25	119
IC9018	2	96
IC9019	1	95
IC9020	1	95
IC9021	1	95
IC9022	1	95
IC9023	1	95
IC9024	28	122
IC9036	16	110
IC9047	5	99
IC9048	29	123
IC9061	7	101
IC9093	4	98
IC9200	3	97
IC9201	3	97
IC9202	3	97
IC9204	4	98
IC9206	16	110
IC9207	4	98
IC9209	4	98
IC9210	16	110
IC9211	4	98
IC9211	4	98
IC9212	4	98
IC9213	4	98
IC9214	4	98
IC9215	4	98
IC9217	4	98
IC9223	15	109
IC9225	5	99
IC9226	29	123
IC9250	27	121
IC9251	27	121
IC9254	28	122
IC9259	28	122
IC9302	5	99
IC9352	29	123
IC9400	6	100
IC9401	6	100
IC9401	6	100
IC9402	6	100
IC9403	6	100
IC9450	30	124
IC9451	30	124
IC9452	30	124
IC9453	30	124
IC9501	22	116
IC9502	23	117
IC9503	10	104
IC9504	11	105
IC9505	35	129
IC9506	34	128
IC9507	23	117
IC9508	23	117
IC9509	23	117
IC9510	23	117
IC9511	23	117
IC9512	24	118
IC9513	24	118
IC9516	21	115
IC9520	10	104
IC9521	34	128
IC9551	19	113
IC9552	8	102
IC9554	8	102
IC9555	32	126
IC9557	20	114
IC9558	8	102
IC9559	20	114
IC9560	8	102
IC9561	20	114
IC9562	21	115
IC9563	21	115
IC9564	21	115
IC9565	21	115
IC9701	26	120
IC9702	26	120
IC9703	26	120
IC9704	27	121
IC9705	27	121
IC9706	26	120
IC9707	27	121
IC9900	2	96
IC9901	3	97
IC9902	3	97
IC9903	3	97
IC9904	3	97
IC9905	3	97
IC9906	3	97
IC9907	3	97
IC9908	2	96
IC9909	2	96

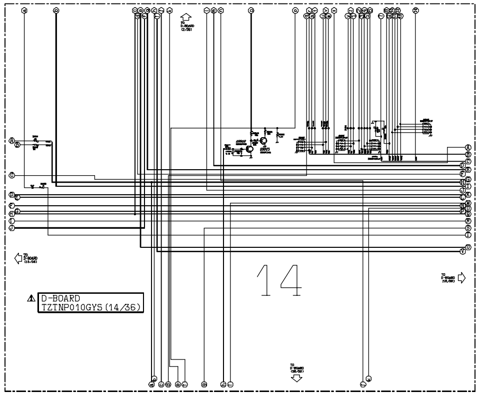
13.21. D-Board Information (1/4)

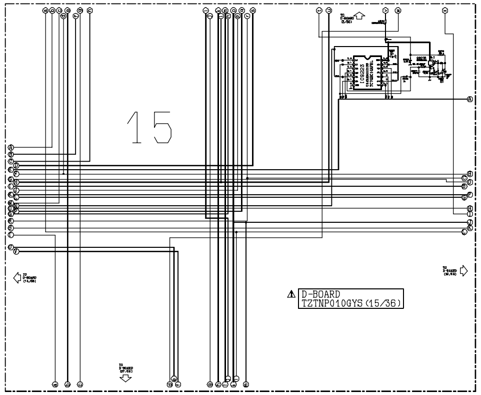

D-BOARD
TZTNP010GYS (1/36)
1
IC9022
IC9023
IC9003
IC9010
G_IN
JK9002
B_IN
JK9003
R_IN
JK9001
IC9000
IC9001
IC9004
IC9005
IC9019
IC9020
IC9021
TO D-BOARD (2/36)
TO D-BOARD (13/36)

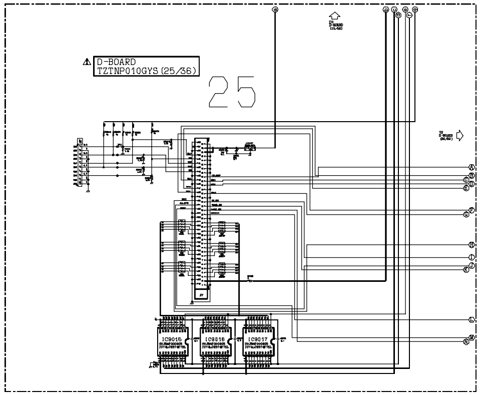

D-BOARD
TZTNP010GYS (2/36)
2
IC9018
IC9908
IC9007
B IN
IC9008
G IN
IC9009
R IN
IC9900
XC2S100-5PQ208C
(SPARTAN2)
IC9909
TO D-BOARD (1/36)
TO D-BOARD (3/36)
TO D-BOARD (14/36)

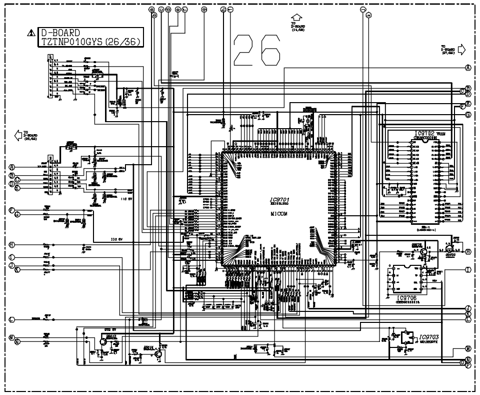

D-BOARD
TZTNP010GYS
(3/36)
3
IC9901
TVRJ483
XILINX
IC9902
IC9903
IC9904
IC9907
IC9905
IC9906
IC9200
16M-SGRAM
IC9201
16M-SGRAM
IC9202
TO D-BOARD (2/36)
TO D-BOARD (4/36)
TO D-BOARD (15/36)

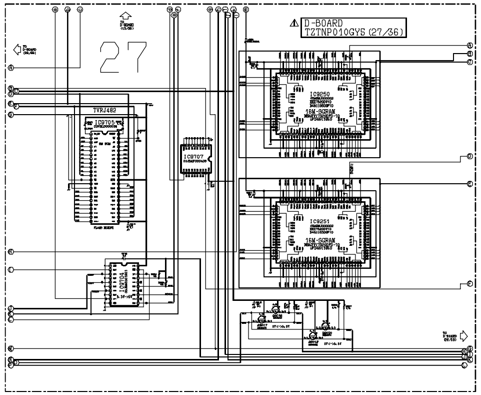

13
IC9012
IC9006
IC9002
D-BOARD
TZTNP010GYS (13/36)
TO D-BOARD (1/36)
TO D-BOARD (14/36)
TO D-BOARD (25/36)


14
D-BOARD
TZTNP010GYS (14/36)

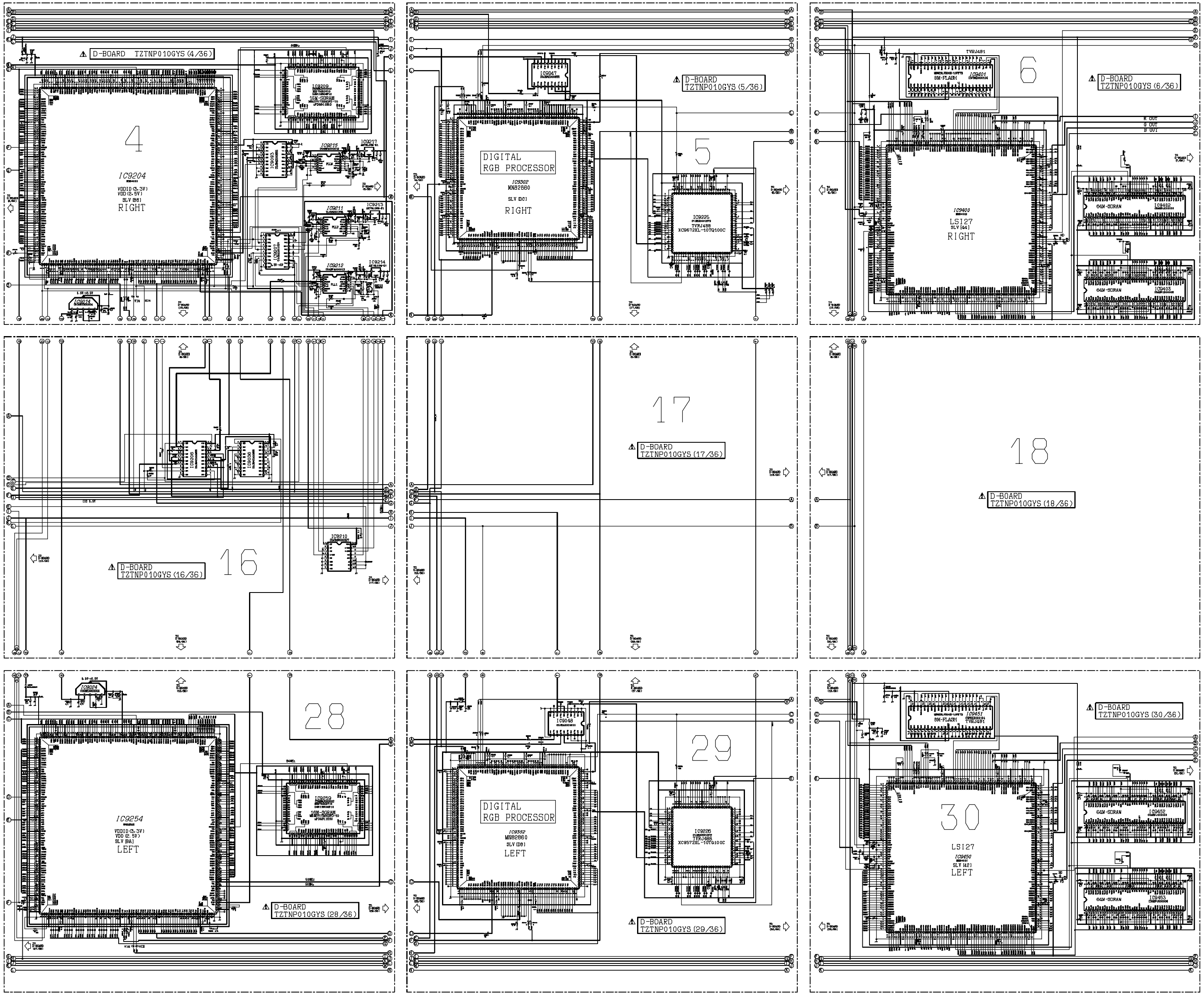

15
D-BOARD
TZTNP010GYS (15/36)


D-BOARD
TZTNP010GYS (25/36)
25
IC9015
IC9016
IC9017
TO D-BOARD (13/36)
TO D-BOARD (26/36)

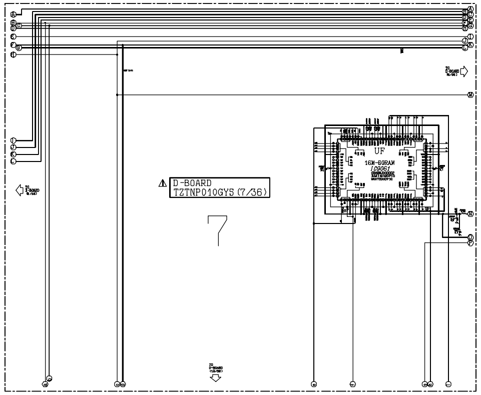

D-BOARD
TZTNP010GYS (26/36)
26
IC9701
MICOM
IC9702 VRAM
IC9706
IC9703
TO D-BOARD (14/36)
TO D-BOARD (25/36)
TO D-BOARD (27/36)

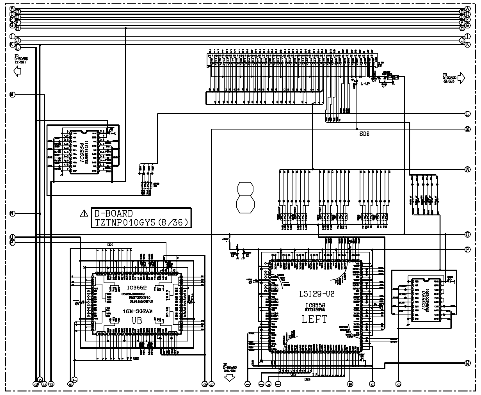

D-BOARD
TZTNP010GYS (27/36)
27
TVRJ482
IC9705
IC9707
IC9704
IC9250
16M-SGRAM
IC9251
16M-SGRAM
TO D-BOARD (15/36)
TO D-BOARD (26/36)

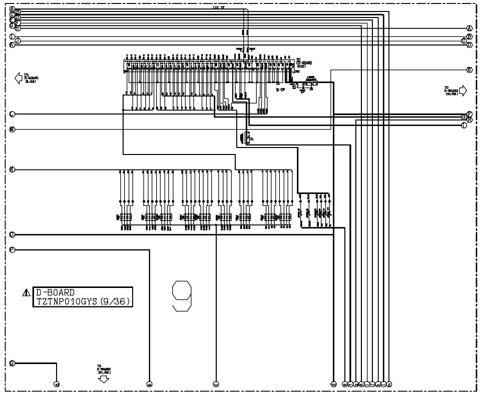
13.22. D-Board Information (2/4)

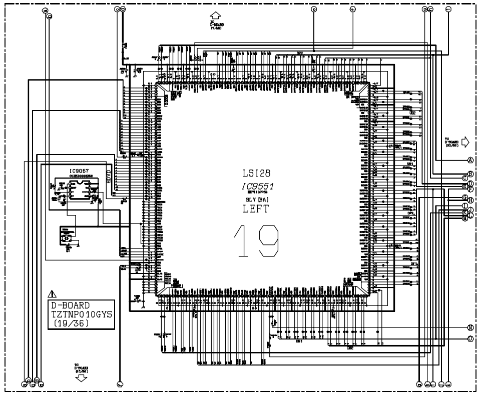

D-BOARD TZTNP010GYS (4/36)
4
IC9204
VDDIO (3.3V)
VDD (2.5V)
SLV (B8)
RIGHT
D-BOARD TZTNP010GYS (5/36)
5
DIGITAL
RGB PROCESSOR
IC9302
MN82860
SLV (D01)
RIGHT
IC9047
IC9225
TYRJ488
XC9572XL-10TQ100C
D-BOARD TZTNP010GYS (6/36)
6
IC9400
LS127
SLV (A4)
RIGHT
IC9401
8M-FLASH
IC9402
64M-SDRAM
IC9403
64M-SDRAM
R OUT
G OUT
B OUT
D-BOARD TZTNP010GYS (16/36)
16
IC9210
17
D-BOARD TZTNP010GYS (17/36)
18
D-BOARD TZTNP010GYS (18/36)
28
IC9254
VDDIO (3.3V)
VDD (2.5V)
SLV (BA)
LEFT
IC9224
D-BOARD TZTNP010GYS (28/36)
29
DIGITAL
RGB PROCESSOR
IC9352
MN82860
SLV (D81)
LEFT
IC9048
IC9226
TYRJ488
XC9572XL-10TQ100C
D-BOARD TZTNP010GYS (29/36)
30
LS127
IC9450
SLV (42)
LEFT
IC9451
8M-FLASH
IC9452
64M-SDRAM
IC9453
64M-SDRAM
D-BOARD TZTNP010GYS (30/36)

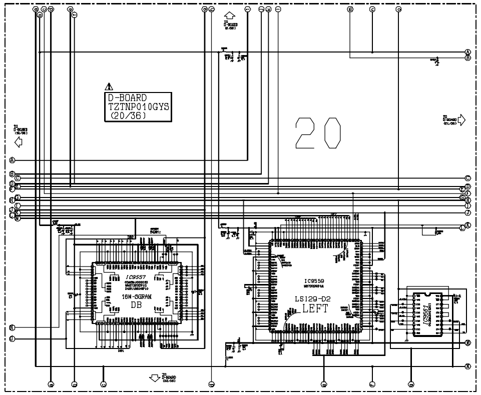
13.23. D-Board Information (3/4)

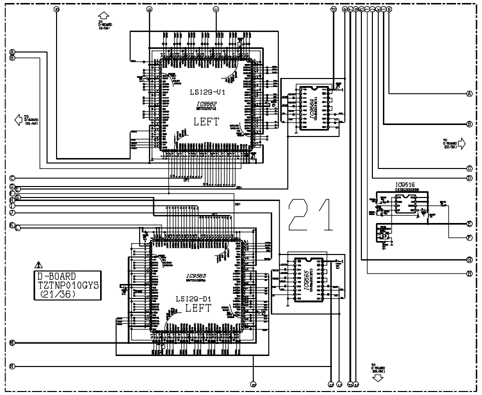

D-BOARD
TZTNP010GYS (7/36)
7
UF
16M-SGRAM
IC9561

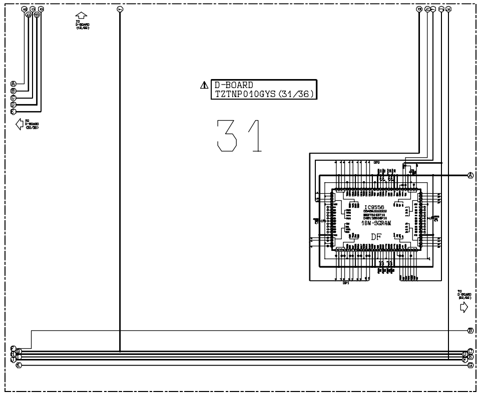

D-BOARD
TZTNP010GYS (8/36)
8
IC9552
16M-SGRAM
UB
LSI29-U2
IC9558
LEFT

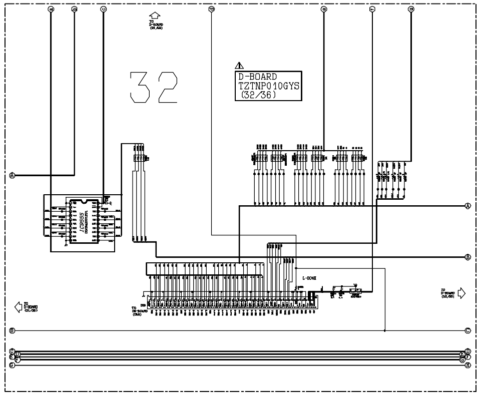

D-BOARD
TZTNP010GYS (9/36)
9

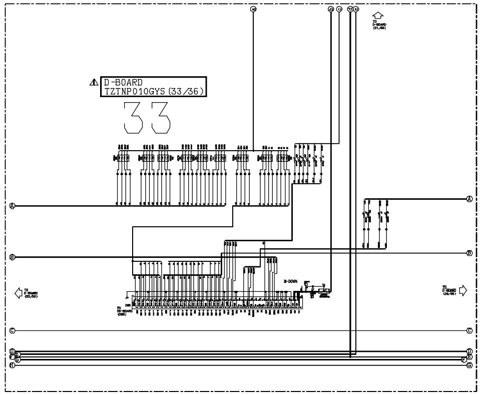

LSI28
IC9551
SLY [BA]
LEFT
19
IC9557
D-BOARD
TZTNP010GYS
(19/36)


D-BOARD
TZTNP010GYS
(20/36)
20
IC9557
16M-SGRAM
DB
IC9559
LSI29-D2
LEFT

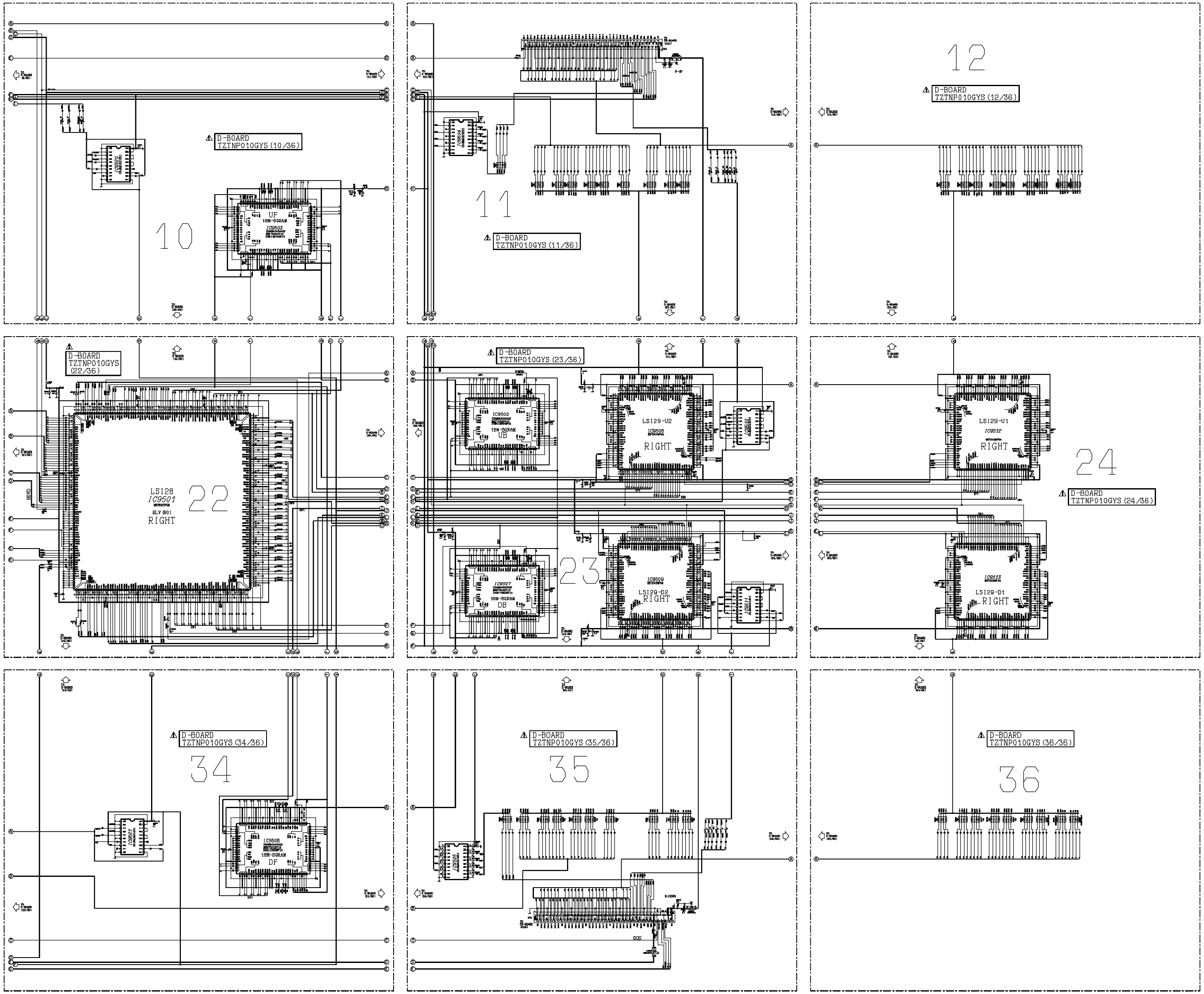

LSI29-U1
IC9562
LEFT
IC9516
21
D-BOARD
TZTNP010GYS
(21/36)
IC9563
LSI29-D1
LEFT


D-BOARD
TZTNP010GYS (31/36)
31
IC9556
16M-SGRAM
DF

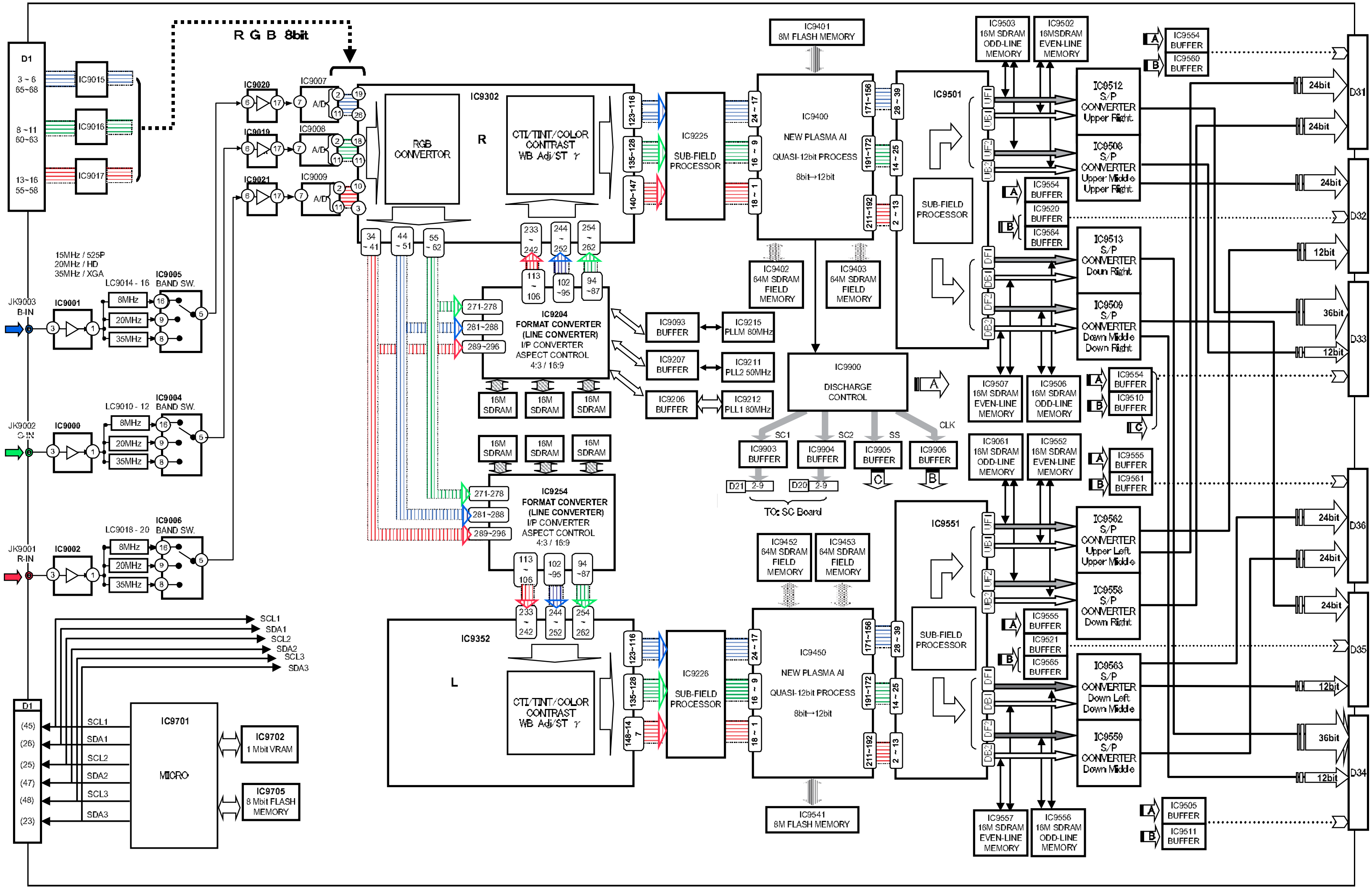

32
D-BOARD
TZTNP010GYS
(32/36)


D-BOARD
TZTNP010GYS (33/36)
33

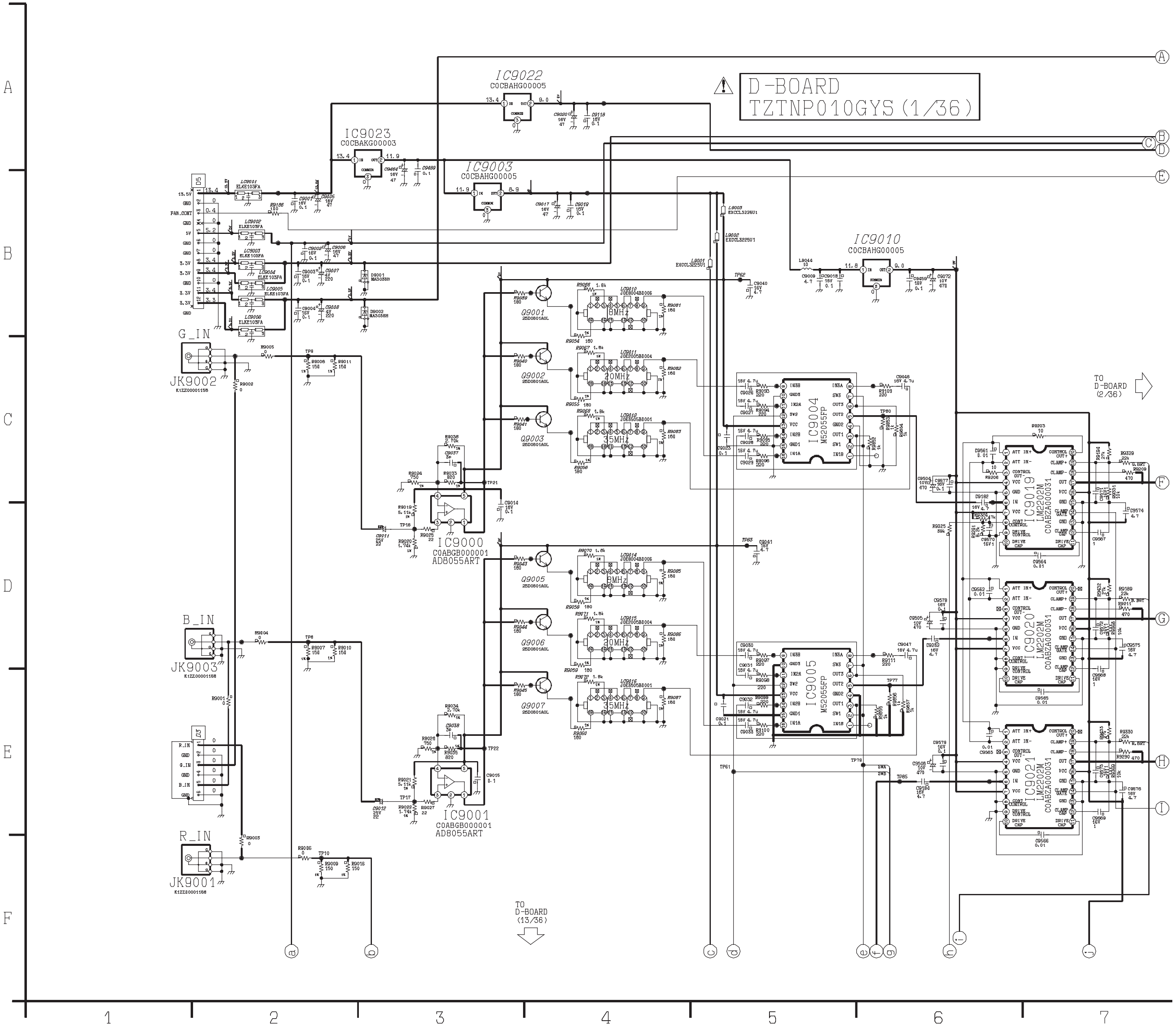
13.24. D-Board Information (4/4)


D-BOARD TZTNP010GYS (10/36)
10
UF
16M-SGRAM
IC9503
D-BOARD TZTNP010GYS (11/36)
11
12
D-BOARD TZTNP010GYS (12/36)
D-BOARD TZTNP010GYS (22/36)
LS128
IC9501
RIGHT
22
D-BOARD TZTNP010GYS (23/36)
IC9502
16M-SGRAM
UB
LS129-U2
IC9508
RIGHT
IC9507
16M-SGRAM
DB
23
IC9509
LS129-D2
RIGHT
LS129-U1
IC9512
RIGHT
24
D-BOARD TZTNP010GYS (24/36)
IC9513
LS129-D1
RIGHT
D-BOARD TZTNP010GYS (34/36)
34
IC9506
16M-SGRAM
DF
D-BOARD TZTNP010GYS (35/36)
35
D-BOARD TZTNP010GYS (36/36)
36

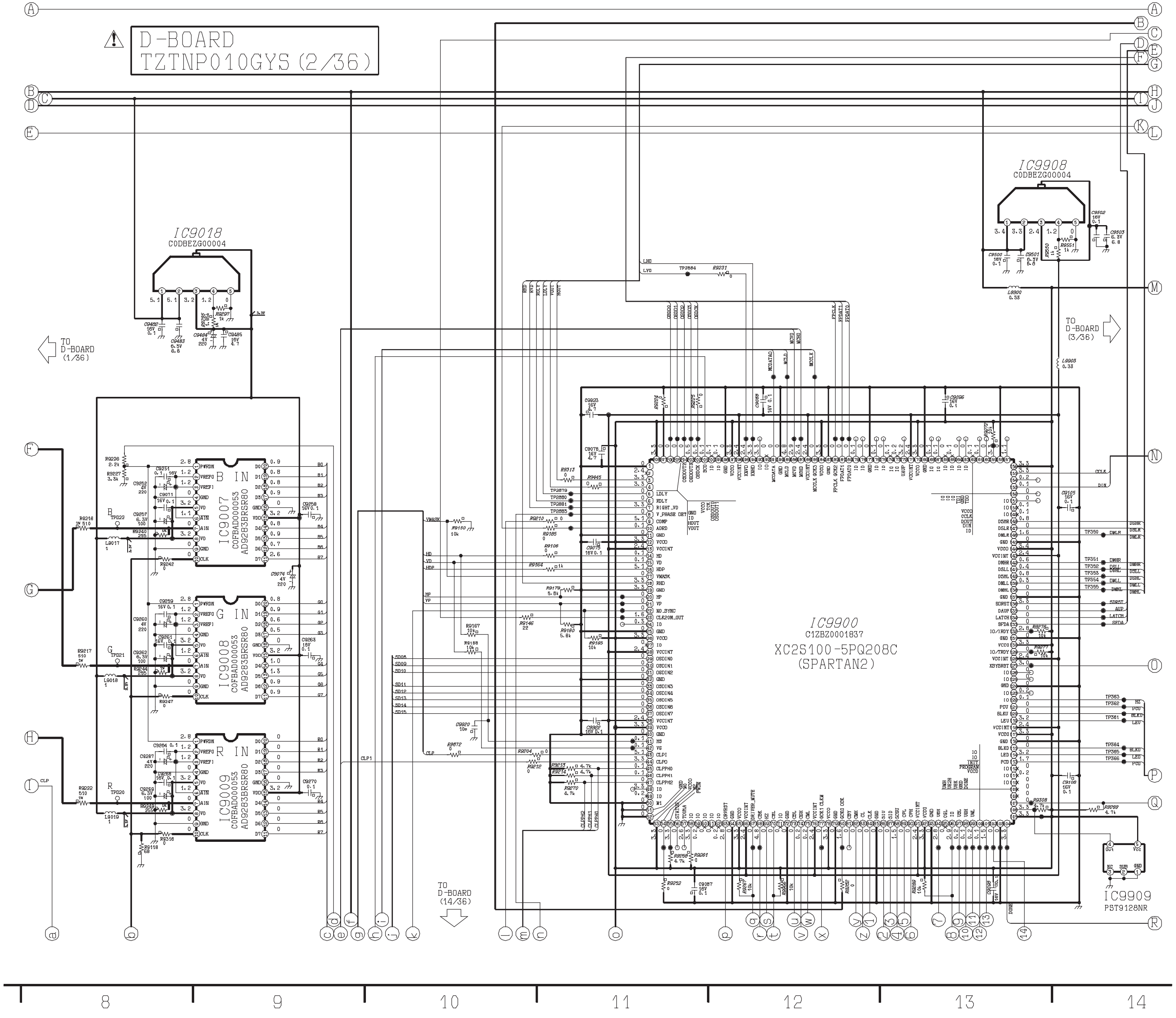
13.25. D-Board Block Diagram


D1
3 ~ 6
65~68
8 ~ 11
60~63
13~16
55~58
IC9015
IC9016
IC9017
R G B 8bit
15MHz / 525P
20MHz / HD
35MHz / XGA
LC9014 - 16
IC9005
BAND SW.
JK9003
B-IN
IC9001
8MHz
20MHz
35MHz
LC9010 - 12
IC9004
BAND SW.
JK9002
G-IN
IC9000
LC9018 - 20
IC9006
BAND SW.
JK9001
R-IN
IC9002
IC9020
IC9019
IC9021
IC9007
IC9008
IC9009
A/D
IC9302
RGB CONVERTOR
R
CTI/TINT/COLOR
CONTRAST
WB Adj/ST γ
34 ~ 41
44 ~ 51
55 ~ 62
233 ~ 242
244 ~ 252
254 ~ 262
113 ~ 106
102 ~95
94 ~87
123~116
135~128
140~147
IC9225
SUB-FIELD PROCESSOR
24 ~ 17
16 ~ 9
18 ~ 1
IC9204
FORMAT CONVERTER
(LINE CONVERTER)
I/P CONVERTER
ASPECT CONTROL
4:3 / 16:9
271-278
281~288
289~296
16M SDRAM
IC9254
FORMAT CONVERTER
(LINE CONVERTER)
I/P CONVERTER
ASPECT CONTROL
4:3 / 16:9
IC9352
L
148~147
IC9226
SUB-FIELD PROCESSOR
IC9093
BUFFER
IC9207
BUFFER
IC9206
BUFFER
IC9215
PLLM 80MHz
IC9211
PLL2 50MHz
IC9212
PLL1 80MHz
IC9401
8M FLASH MEMORY
IC9400
NEW PLASMA AI
QUASI-12bit PROCESS
8bit→12bit
171~156
191~172
211~192
IC9402
64M SDRAM
FIELD MEMORY
IC9403
64M SDRAM
FIELD MEMORY
IC9900
DISCHARGE CONTROL
SC1
SC2
SS
CLK
IC9903
BUFFER
IC9904
BUFFER
IC9905
BUFFER
IC9906
BUFFER
A
B
C
D21
2-9
D20
2-9
TO: SC Board
IC9452
64M SDRAM
FIELD MEMORY
IC9453
64M SDRAM
FIELD MEMORY
IC9450
NEW PLASMA AI
QUASI-12bit PROCESS
8bit→12bit
IC9541
8M FLASH MEMORY
IC9501
SUB-FIELD PROCESSOR
28 ~ 39
14 ~ 25
2 ~ 13
UF1
UB1
UF2
UB2
DF1
DB1
DF2
DB2
IC9551
SUB-FIELD PROCESSOR
IC9503
16M SDRAM
ODD-LINE MEMORY
IC9502
16MSDRAM
EVEN-LINE MEMORY
IC9507
16M SDRAM
EVEN-LINE MEMORY
IC9506
16M SDRAM
ODD-LINE MEMORY
IC9061
16M SDRAM
ODD-LINE MEMORY
IC9552
16M SDRAM
EVEN-LINE MEMORY
IC9557
16M SDRAM
EVEN-LINE MEMORY
IC9556
16M SDRAM
ODD-LINE MEMORY
IC9554
BUFFER
IC9520
BUFFER
IC9564
BUFFER
IC9555
BUFFER
IC9521
BUFFER
IC9565
BUFFER
IC9512
S/P CONVERTER
Upper Right
IC9508
S/P CONVERTER
Upper Middle
Upper Right
IC9513
S/P CONVERTER
Down Right
IC9509
S/P CONVERTER
Down Middle
Down Right
IC9562
S/P CONVERTER
Upper Left
Upper Middle
IC9558
S/P CONVERTER
Down Right
IC9563
S/P CONVERTER
Down Left
Down Middle
IC9559
S/P CONVERTER
Down Middle
IC9554
BUFFER
IC9560
BUFFER
IC9554
BUFFER
IC9510
BUFFER
IC9555
BUFFER
IC9561
BUFFER
IC9505
BUFFER
IC9511
BUFFER
24bit
12bit
36bit
D31
Upper Left
D32
Upper Middle
D33
Upper Right
D36
Down Left
D35
Down Middle
D34
Down Right
SCL1
SDA1
SCL2
SDA2
SCL3
SDA3
D1
(45)
(26)
(25)
(47)
(48)
(23)
IC9701
MICRO
IC9702
1 Mbit VRAM
IC9705
8 Mbit FLASH MEMORY

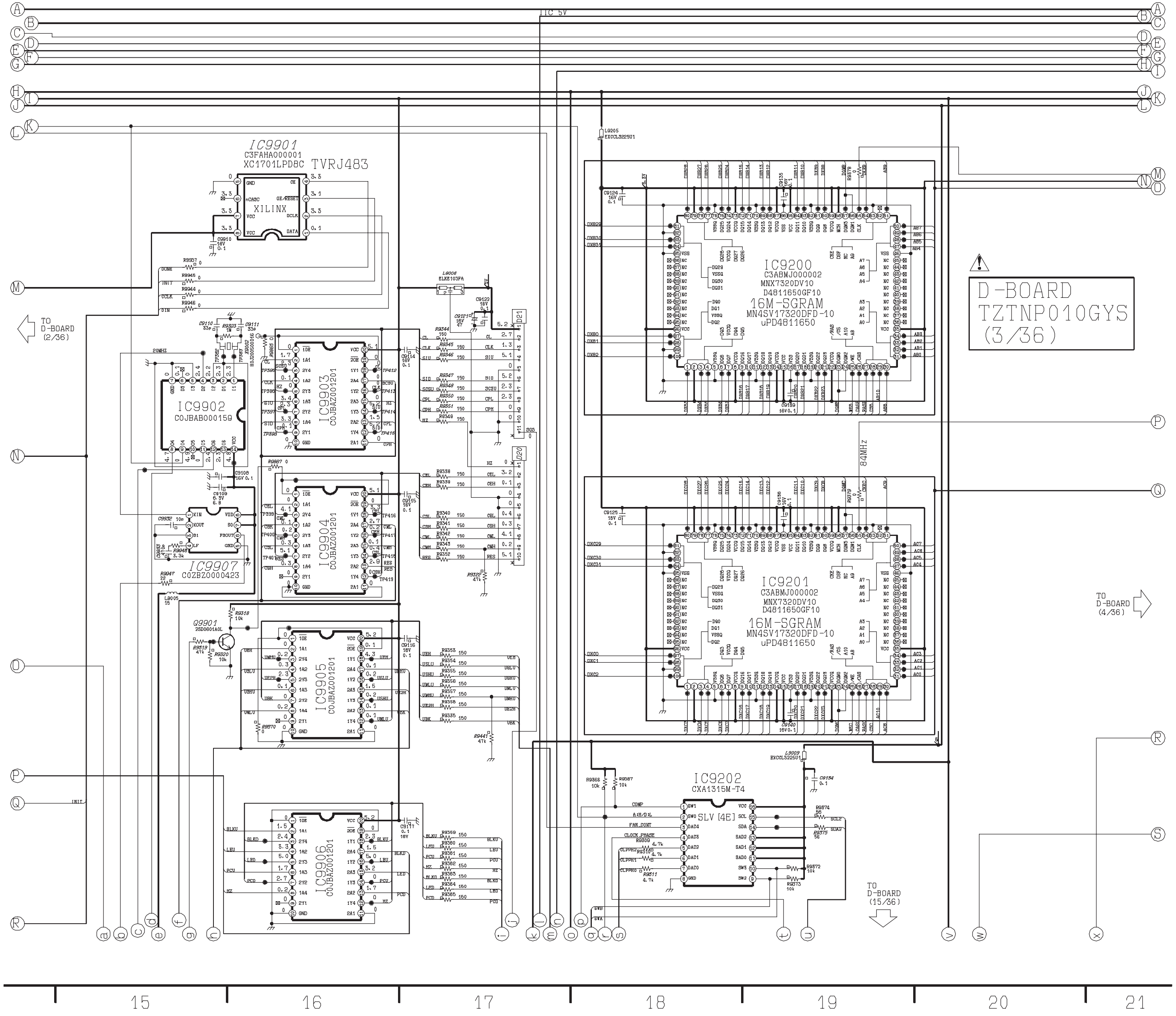
13.26. D-Board (1/36) Schematic Diagram


D-BOARD
TZTNP010GYS(1/36)
IC9022
C0CBAHG00005
IC9023
C0CBAKG00003
IC9003
C0CBAHG00005
IC9010
C0CBAHG00005
G_IN
JK9002
B_IN
JK9003
R_IN
JK9001
Q9001
Q9002
Q9003
Q9005
Q9006
Q9007
2SD0601A0L
8MHz
30MHz
35MHz
IC9000
C0ABGB000001
AD8055ART
IC9001
C0ABGB000001
AD8055ART
IC9004
M52055FP
IC9005
M52055FP
IC9019
IC9020
IC9021
LM2202M
C0ABZA000031
TO
D-BOARD
(2/36)
TO
D-BOARD
(13/36)
A
B
C
D
E
F
1
2
3
4
5
6
7

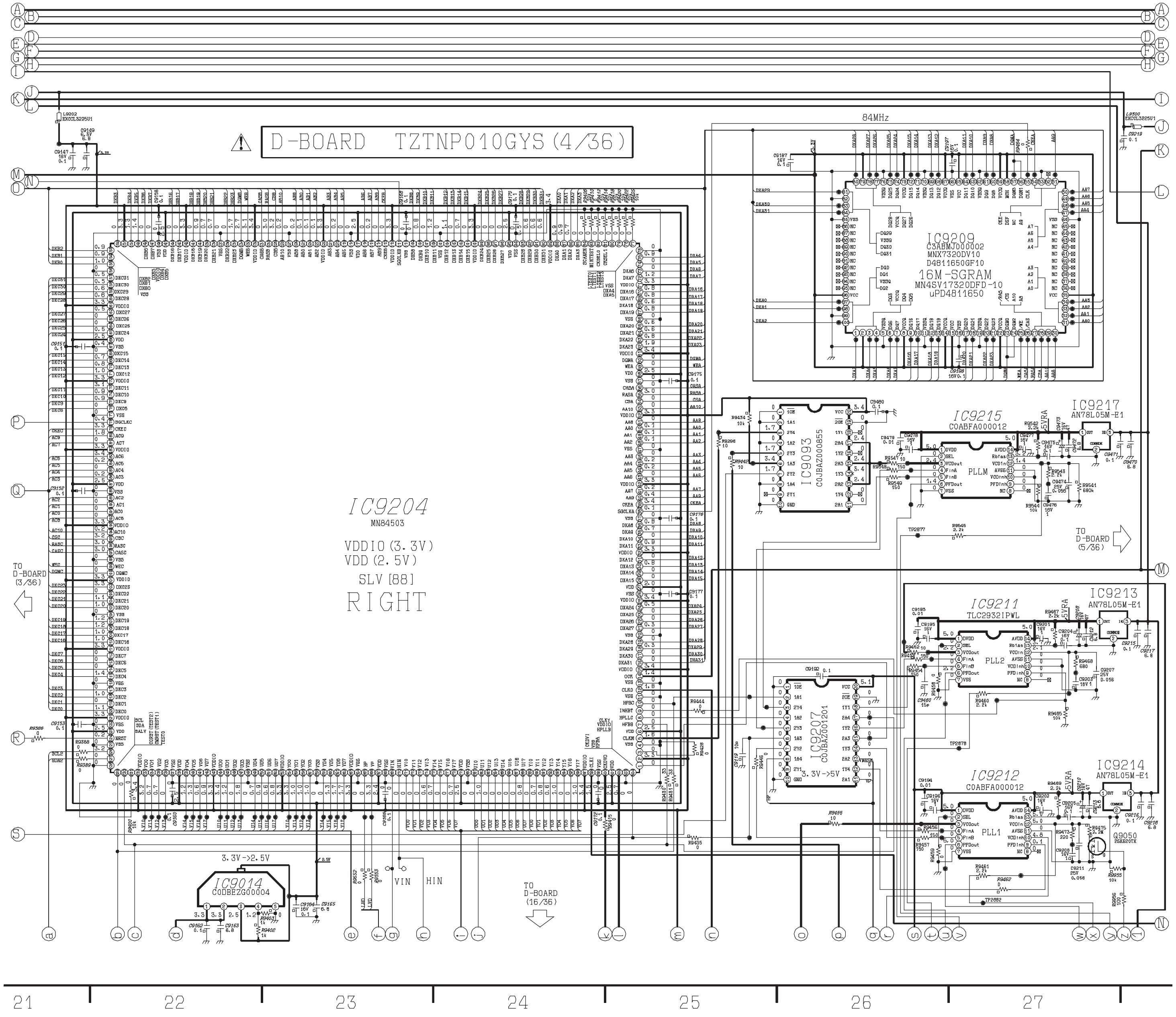
13.27. D-Board (2/36) Schematic Diagram


D-BOARD
TZTNP010GYS (2/36)
IC9018
C0DBEZG00004
IC9908
C0DBEZG00004
IC9007
C0FBAD000053
AD9283BRSR80
B IN
IC9008
C0FBAD000053
AD9283BRSR80
G IN
IC9009
C0FBAD000053
AD9283BRSR80
R IN
IC9900
C1ZBZ0001837
XC2S100-5PQ208C
(SPARTAN2)
IC9909
PST9128NR
TO D-BOARD (1/36)
TO D-BOARD (3/36)
TO D-BOARD (14/36)
8
9
10
11
12
13
14

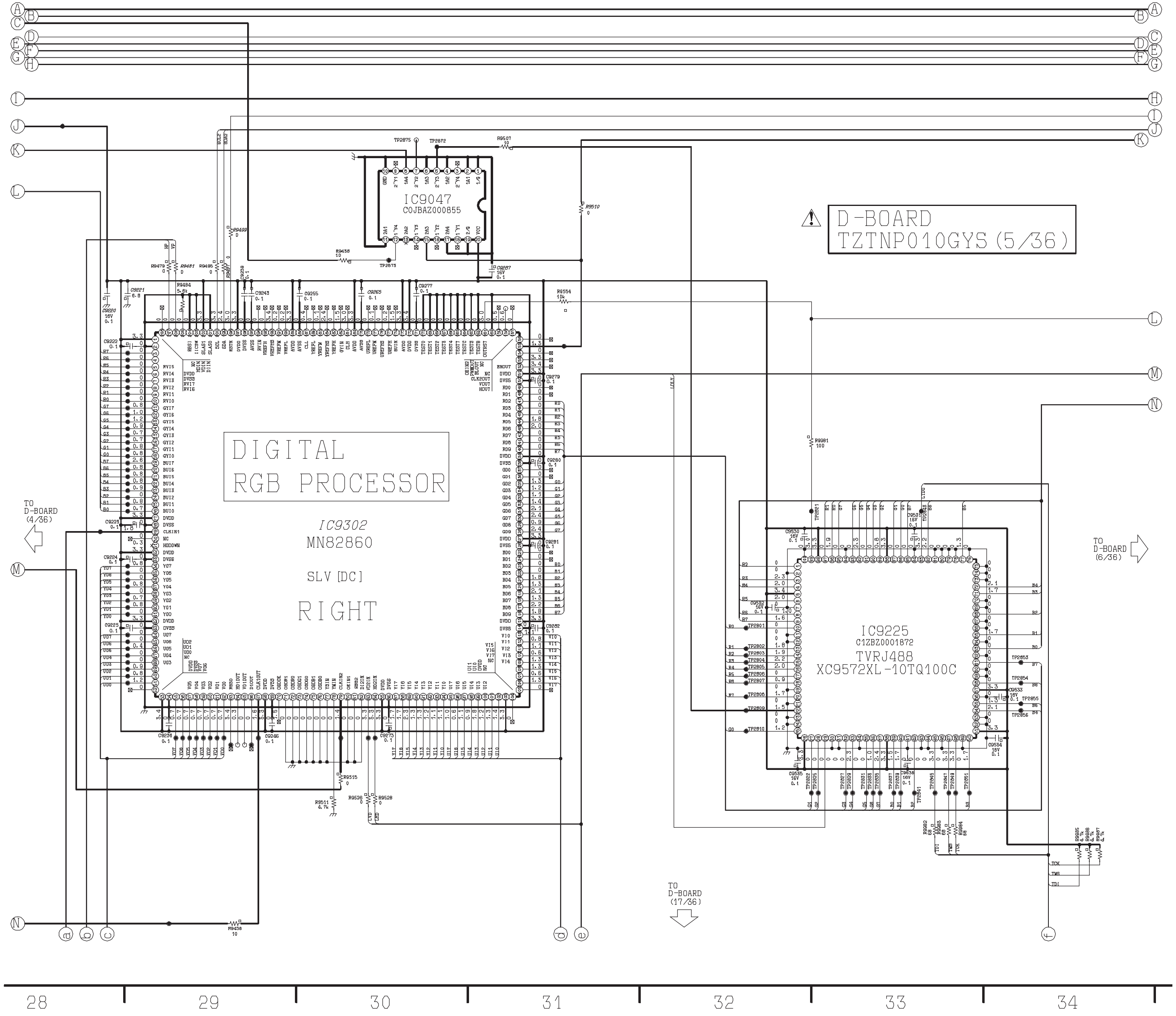
13.28. D-Board (3/36) Schematic Diagram


D-BOARD
TZTNP010GYS
(3/36)
IC9200
C3ABMJ000002
MNX7320DV10
D4811650GF10
16M-SGRAM
MN4SV17320DFD-10
uPD4811650
IC9201
C3ABMJ000002
MNX7320DV10
D4811650GF10
16M-SGRAM
MN4SV17320DFD-10
uPD4811650
IC9202
CXA1315M-T4
SLV [4E]
IC9901
C3FAHA000001
XC1701LPDBC TVRJ483
XILINX
IC9902
C0JBAB000159
IC9903
C0JBAZ001201
IC9904
C0JBAZ001201
IC9905
C0JBAZ001201
IC9906
C0JBAZ001201
IC9907
C0ZBZ0000423
Q9901
2SD0601A0L
84MHz
IC 5V
TO D-BOARD (2/36)
TO D-BOARD (4/36)
TO D-BOARD (15/36)
15
16
17
18
19
20
21

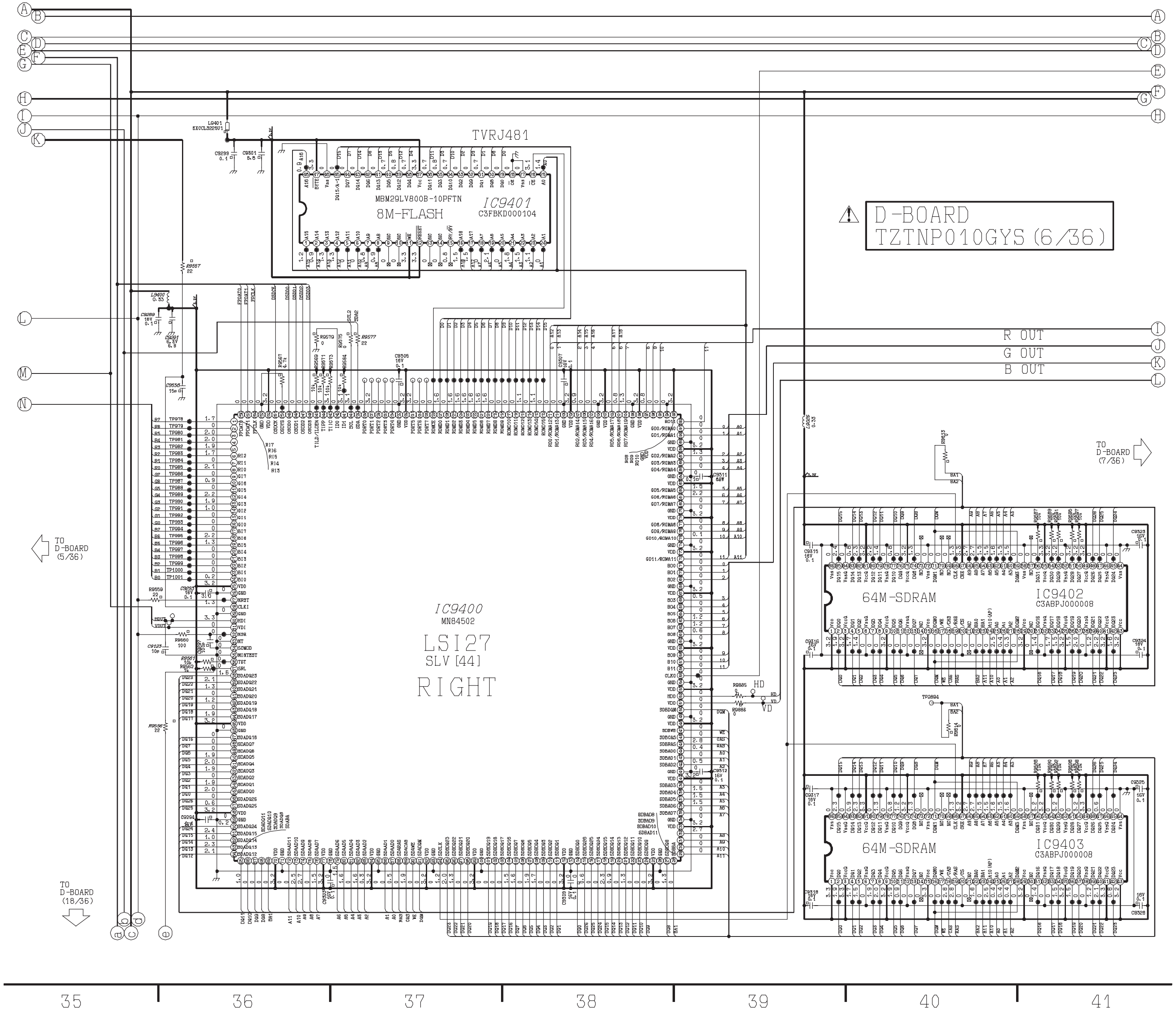
13.29. D-Board (4/36) Schematic Diagram


D-BOARD TZTNP010GYS(4/36)
IC9204
MN84503
VDDIO(3.3V)
VDD(2.5V)
SLV[88]
RIGHT
IC9209
C3ABMJ000002
MNX7320DV10
D4811650GF10
16M-SGRAM
MN4SV17320DFD-10
uPD4811650
84MHz
IC9093
C0JBAZ000855
IC9207
C0JBAZ001201
3.3V->5V
IC9215
C0ABFA000012
PLLM
IC9217
AN78L05M-E1
IC9211
TLC2932IPWL
PLL2
IC9213
AN78L05M-E1
IC9212
C0ABFA000012
PLL1
IC9214
AN78L05M-E1
Q9050
2SK820TK
IC9014
C0DBEZG00004
3.3V->2.5V
L9202
EXCCL3225U1
L9200
EXCCL3225U1
VIN
HIN
TO D-BOARD (3/36)
TO D-BOARD (5/36)
TO D-BOARD (16/36)
21
22
23
24
25
26
27

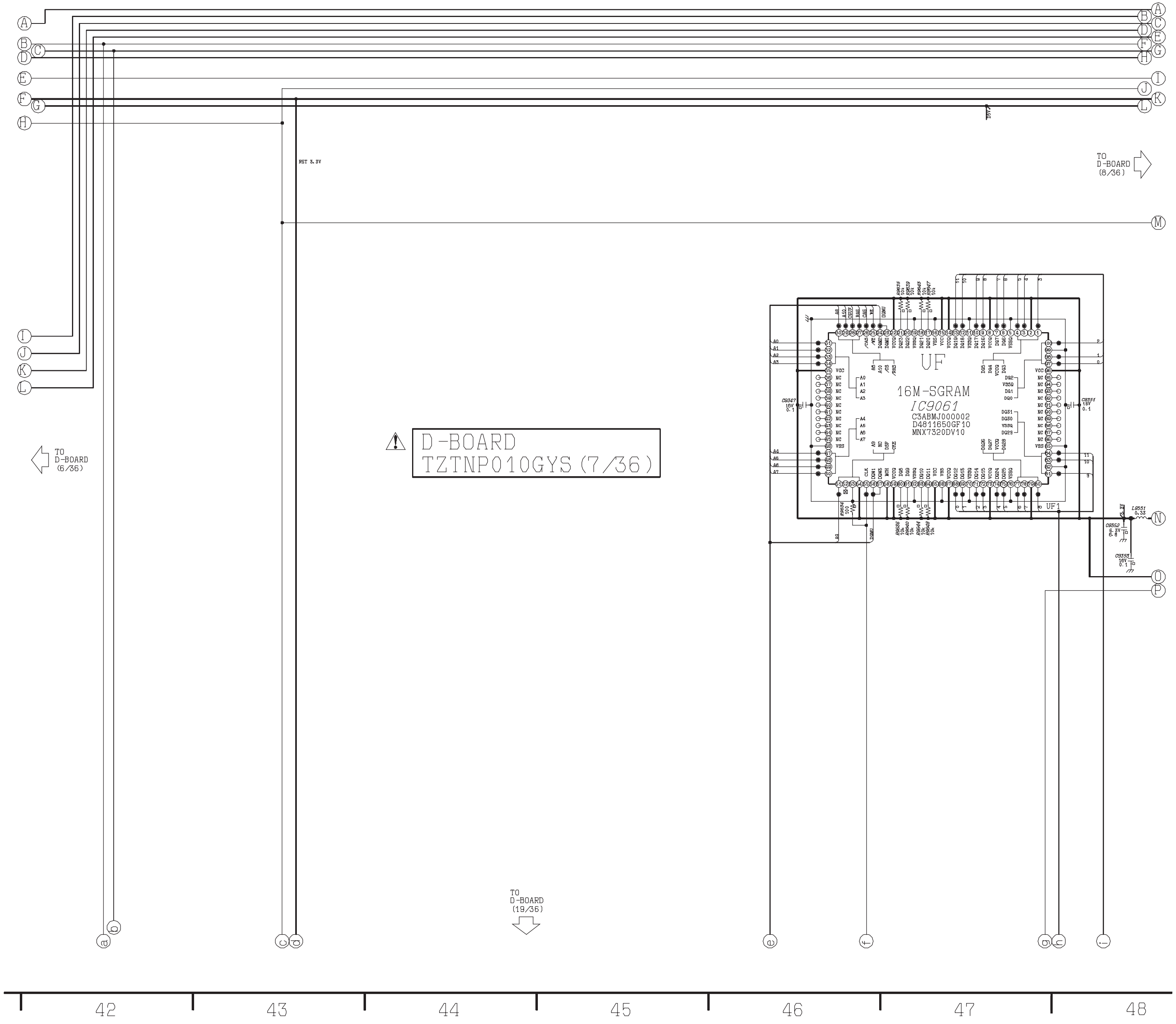
13.30. D-Board (5/36) Schematic Diagram


D-BOARD
TZTNP010GYS (5/36)
DIGITAL
RGB PROCESSOR
IC9302
MN82860
SLV [DC]
RIGHT
IC9047
C0JBAZ000855
IC9225
C1ZBZ0001872
TVRJ488
XC9572XL-10TQ100C
TO
D-BOARD
(4/36)
TO
D-BOARD
(6/36)
TO
D-BOARD
(17/36)
28
29
30
31
32
33
34

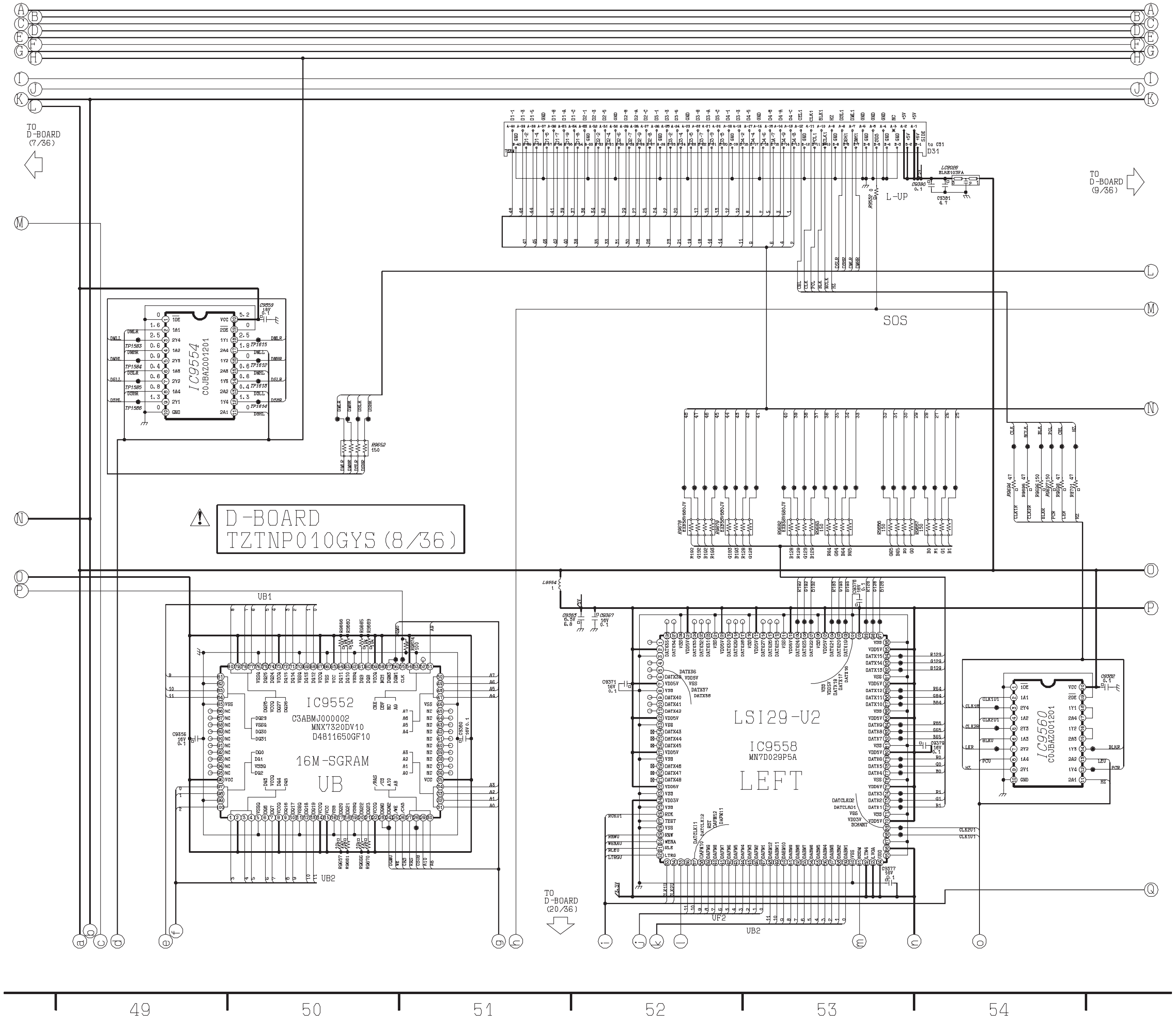
13.31. D-Board (6/36) Schematic Diagram


D-BOARD
TZTNP010GYS (6/36)
TVRJ481
IC9401
C3FBKD000104
MBM29LV800B-10PFTN
8M-FLASH
IC9400
MN84502
LSI27
SLV [44]
RIGHT
IC9402
C3ABPJ000008
64M-SDRAM
IC9403
C3ABPJ000008
64M-SDRAM
R OUT
G OUT
B OUT
HD
VD
TO D-BOARD (7/36)
TO D-BOARD (5/36)
TO D-BOARD (18/36)
L9401 EXCELSE601
L9402 0.33
L9206 0.33
35
36
37
38
39
40
41

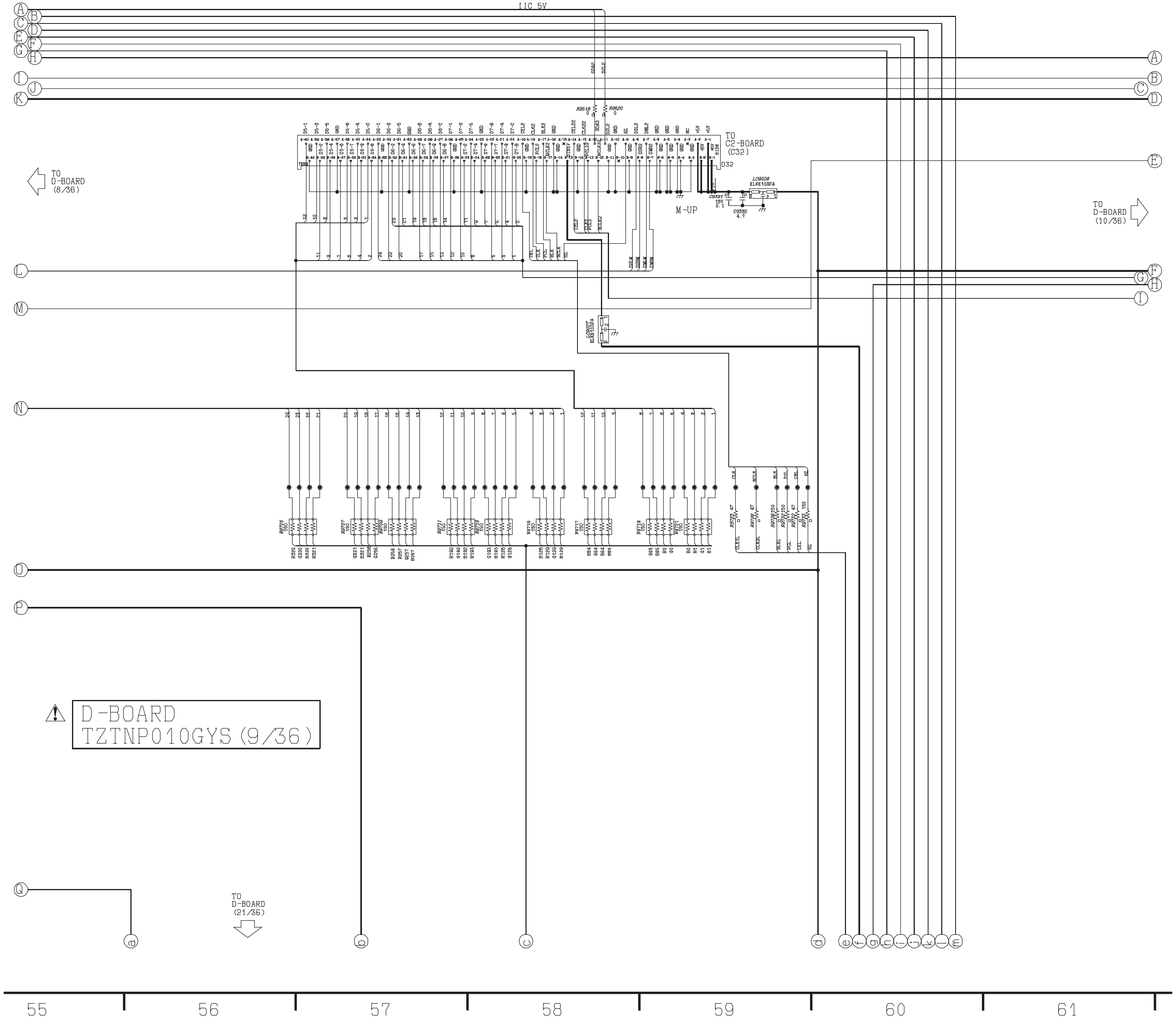
13.32. D-Board (7/36) Schematic Diagram


TO
D-BOARD
(8/36)
TO
D-BOARD
(6/36)
TO
D-BOARD
(19/36)
RST 3.3V
D-BOARD
TZTNP010GYS (7/36)
UF
16M-SGRAM
IC9061
C3ABMJ000002
D4811650GF10
MNX7320DV10
UF1
C9347
16V
0.1
C9351
16V
0.1
L9551
0.33
C9352
C9353
16V
0.1
R9634
100
42
43
44
45
46
47
48

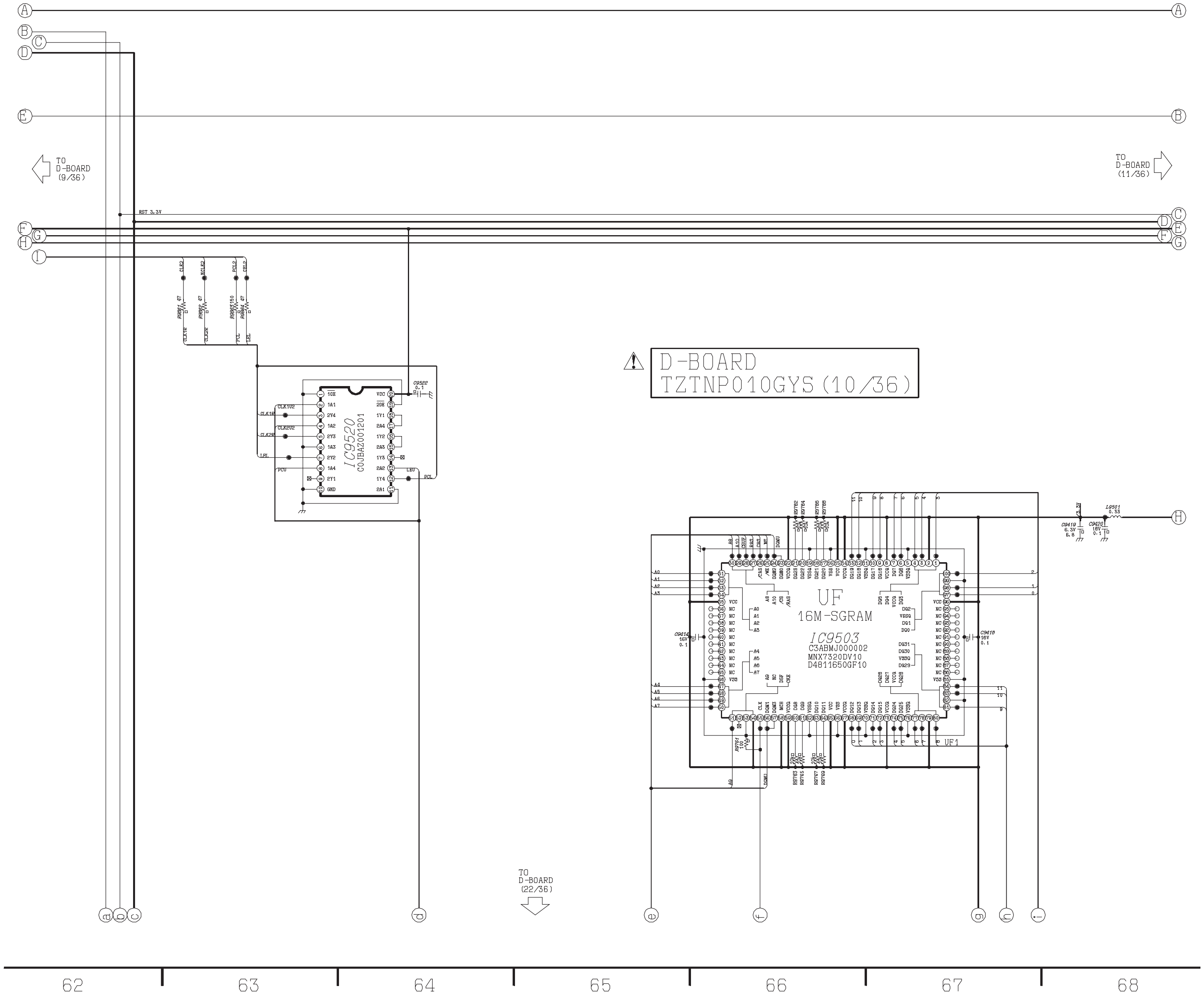
13.33. D-Board (8/36) Schematic Diagram


TO D-BOARD (7/36)
TO D-BOARD (9/36)
TO D-BOARD (20/36)
L-UP
SOS
D31
IC9554
C0JBAZ001201
D-BOARD
TZTNP010GYS(8/36)
IC9552
C3ABMJ000002
MNX7320DV10
D4811650GF10
16M-SGRAM
UB
UB1
UB2
UF2
LSI29-U2
IC9558
MN7D029P5A
LEFT
IC9560
C0JBAZ001201
49
50
51
52
53
54

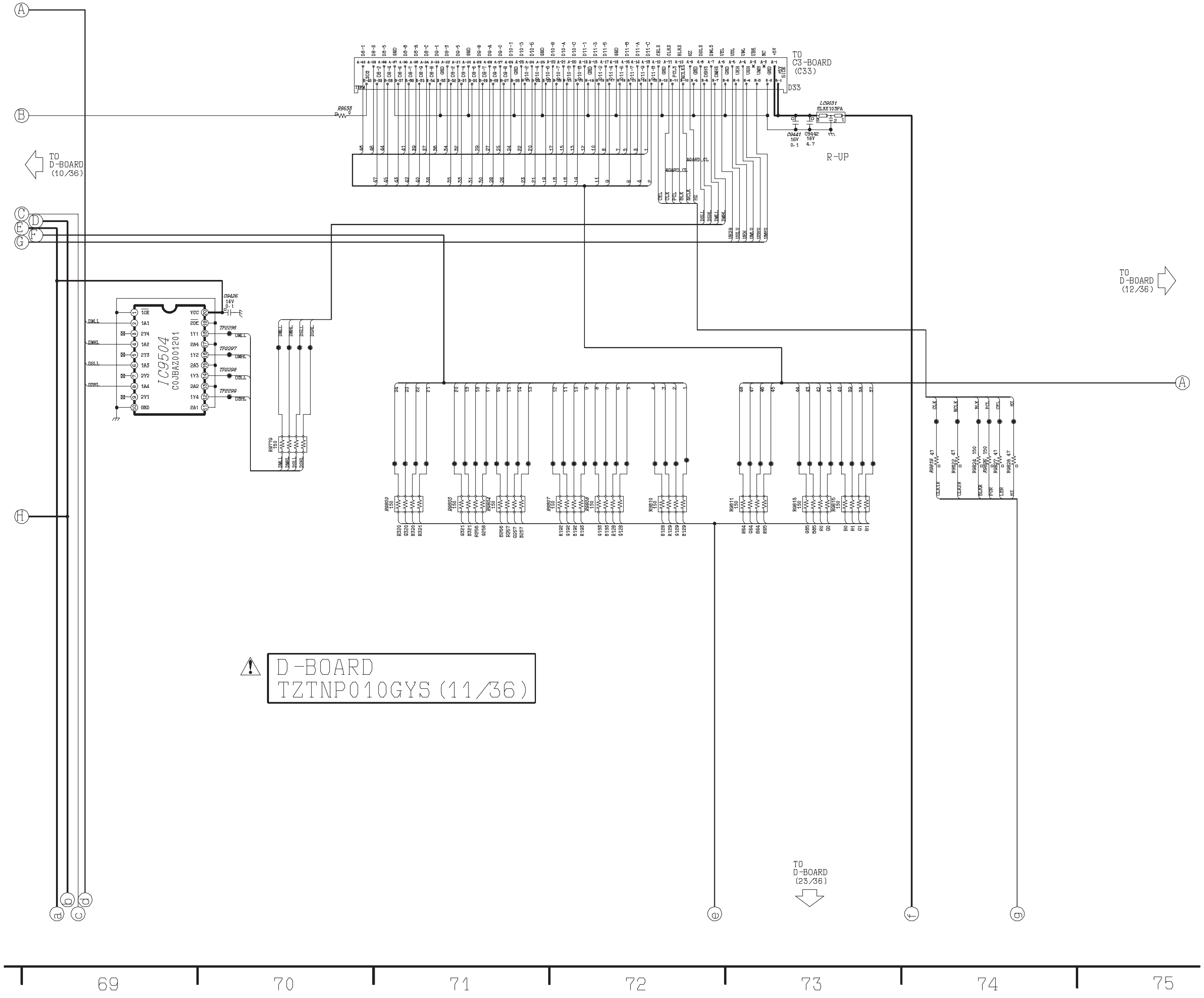
13.34. D-Board (9/36) Schematic Diagram


IIC 5V
TO
C2-BOARD
(C32)
D32
M-UP
LC9028
ELKE103FA
LC9027
ELKE103FA
R9519
R9520
TO
D-BOARD
(8/36)
TO
D-BOARD
(10/36)
TO
D-BOARD
(21/36)
D-BOARD
TZTNP010GYS(9/36)
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
a
b
c
d
e
f
g
h
i
j
k
l
m
55
56
57
58
59
60
61

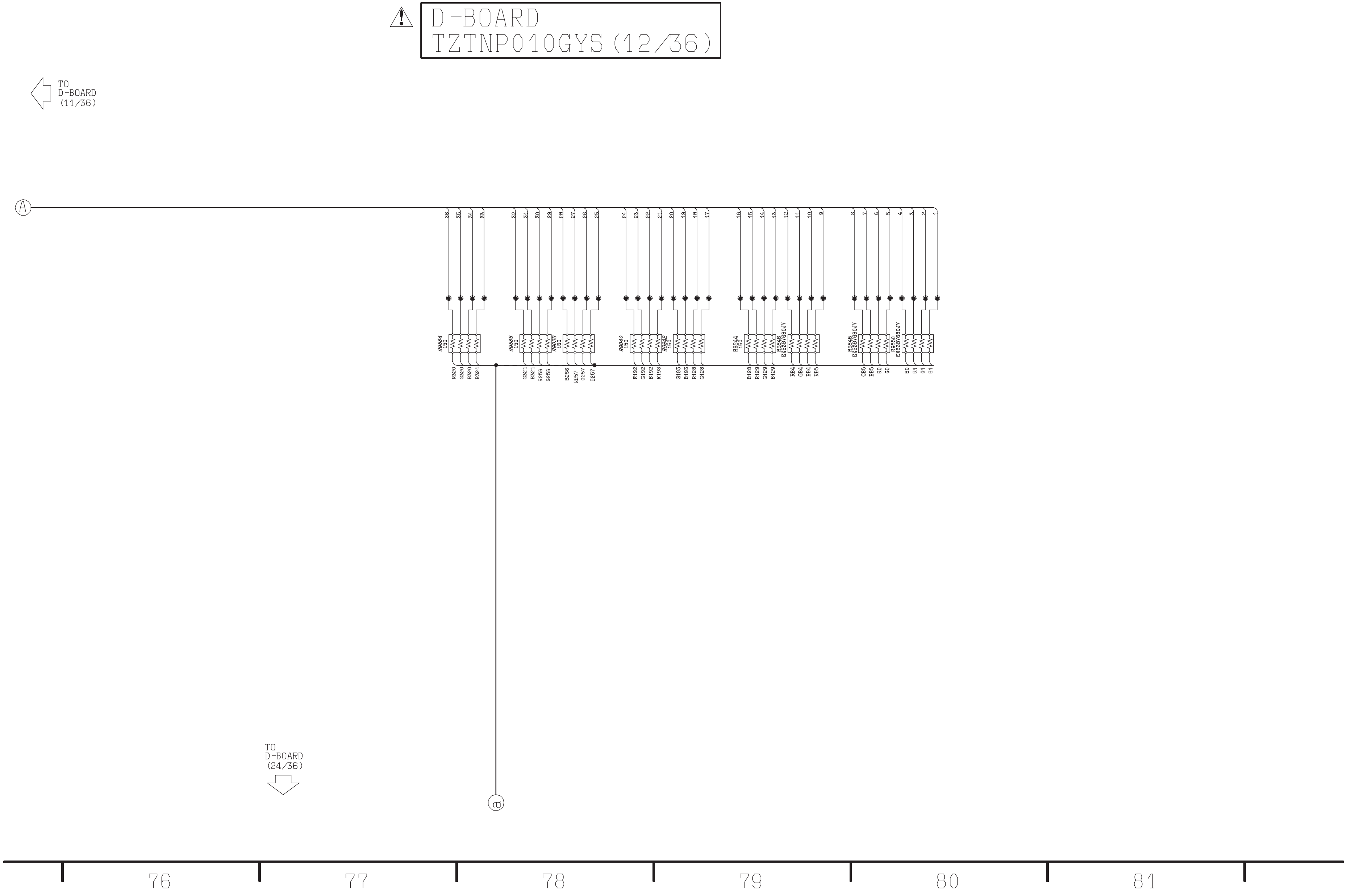
13.35. D-Board (10/36) Schematic Diagram


TO
D-BOARD
(9/36)
TO
D-BOARD
(11/36)
TO
D-BOARD
(22/36)
RST 3.3V
D-BOARD
TZTNP010GYS(10/36)
IC9520
C0JBAZ001201
C9522
0.1
R9561 47
R9562 47
R9563150
R9564 47
CLK1R
CLK2R
PCL
LRL
UF
16M-SGRAM
IC9503
C3ABMJ000002
MNX7320DV10
D4811650GF10
UF1
C9414
16V
0.1
C9416
16V
0.1
C9419
6.3V
6.8
C9420
16V
0.1
L9501
0.33
R9761
100
62
63
64
65
66
67
68

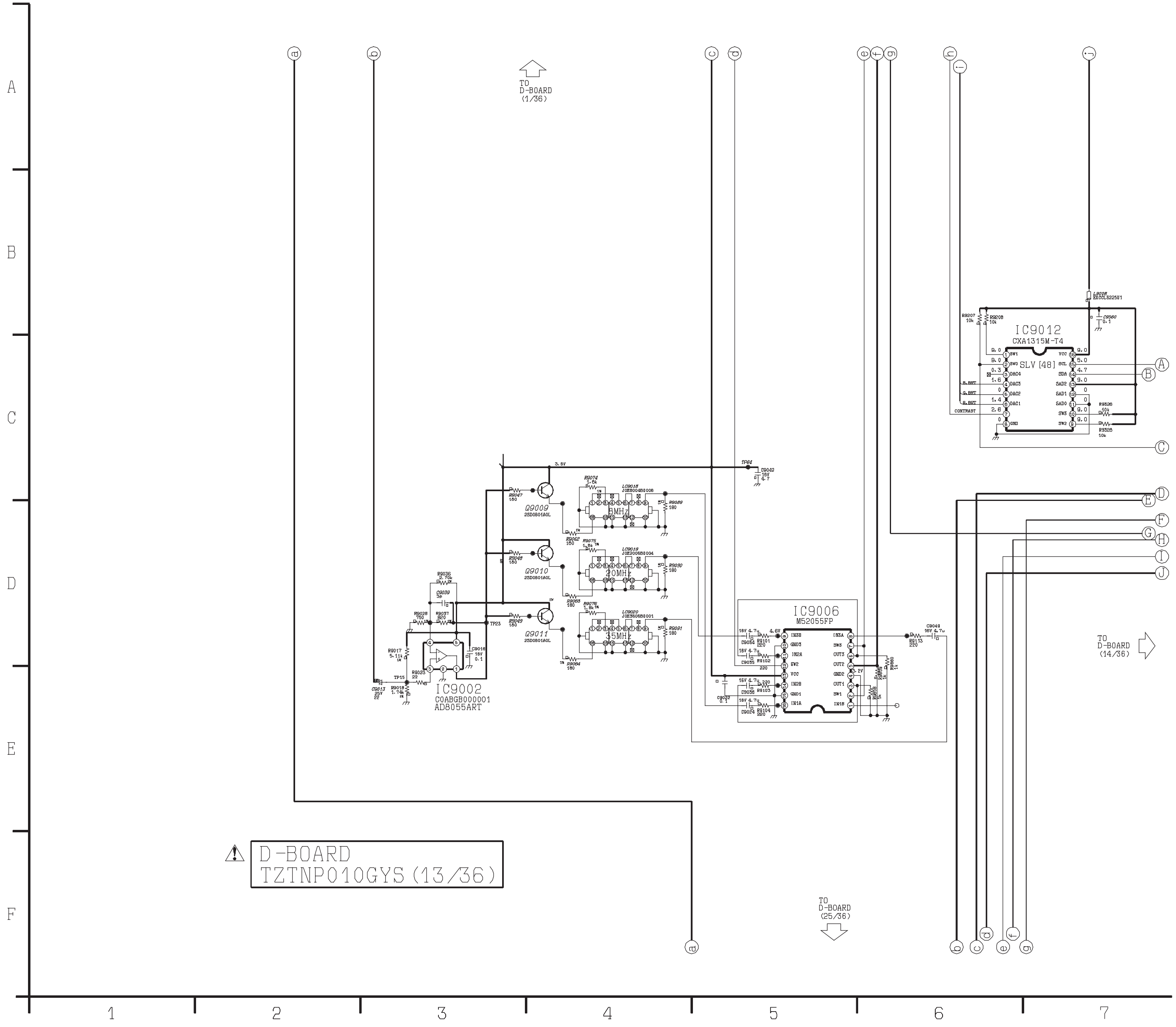
13.36. D-Board (11/36) Schematic Diagram


TO
C3-BOARD
(C33)
D33
+5V
NC
UBK
UWL
GND
UMH
USH
UEH
+5V SIDE
LC9031
ELKE103FA
C9441
16V
0.1
C9442
16V
4.7
R-UP
R9633
TO
D-BOARD
(10/36)
TO
D-BOARD
(12/36)
TO
D-BOARD
(23/36)
IC9504
C0JBAZ001201
1OE
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
VCC
2OE
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
C9426
16V
0.1
TP2296
TP2297
TP2298
TP2299
DMLL
DMHL
DSLL
DSHL
DNLL
DNHL
R9779
150
BOARD_SL
BOARD_CL
CLK
NCLK
BLK
PCL
CEL
HZ
R9819 47
R9822 47
R9824 150
R9826 150
R9827 47
R9828 47
CLK1R
CLK2R
BLKR
PCR
LER
HZ
R9800
R9803
R9804
R9807
R9808
R9810
R9811
R9815
R9816
150
A
B
C
D
E
F
G
H
a
b
c
d
e
f
g
69
70
71
72
73
74
75
D-BOARD
TZTNP010GYS (11/36)

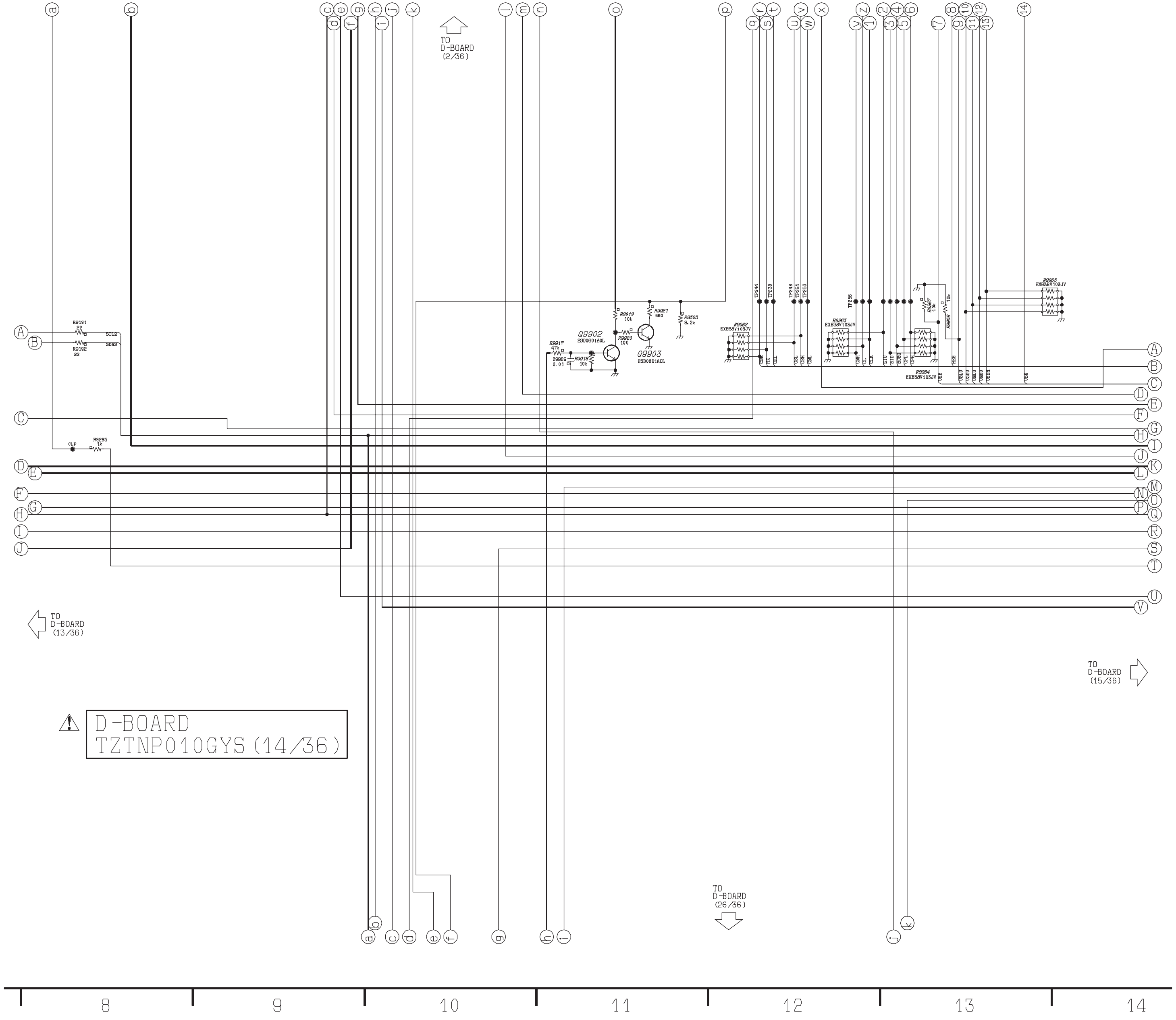
13.37. D-Board (12/36) Schematic Diagram


D-BOARD
TZTNP010GYS (12/36)
TO
D-BOARD
(11/36)
A
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36
R9834
150
R320
G320
B320
R321
R9836
150
G321
B321
R256
G256
R9838
150
B256
R257
G257
B257
R9840
150
R192
G192
B192
R193
R9842
150
G193
B193
R128
G128
R9844
150
B128
R129
G129
B129
R9846
EXB38V680JV
R64
G64
B64
R65
R9848
EXB38V680JV
G65
B65
R0
G0
R9850
EXB38V680JV
B0
R1
G1
B1
TO
D-BOARD
(24/36)
a
76
77
78
79
80
81

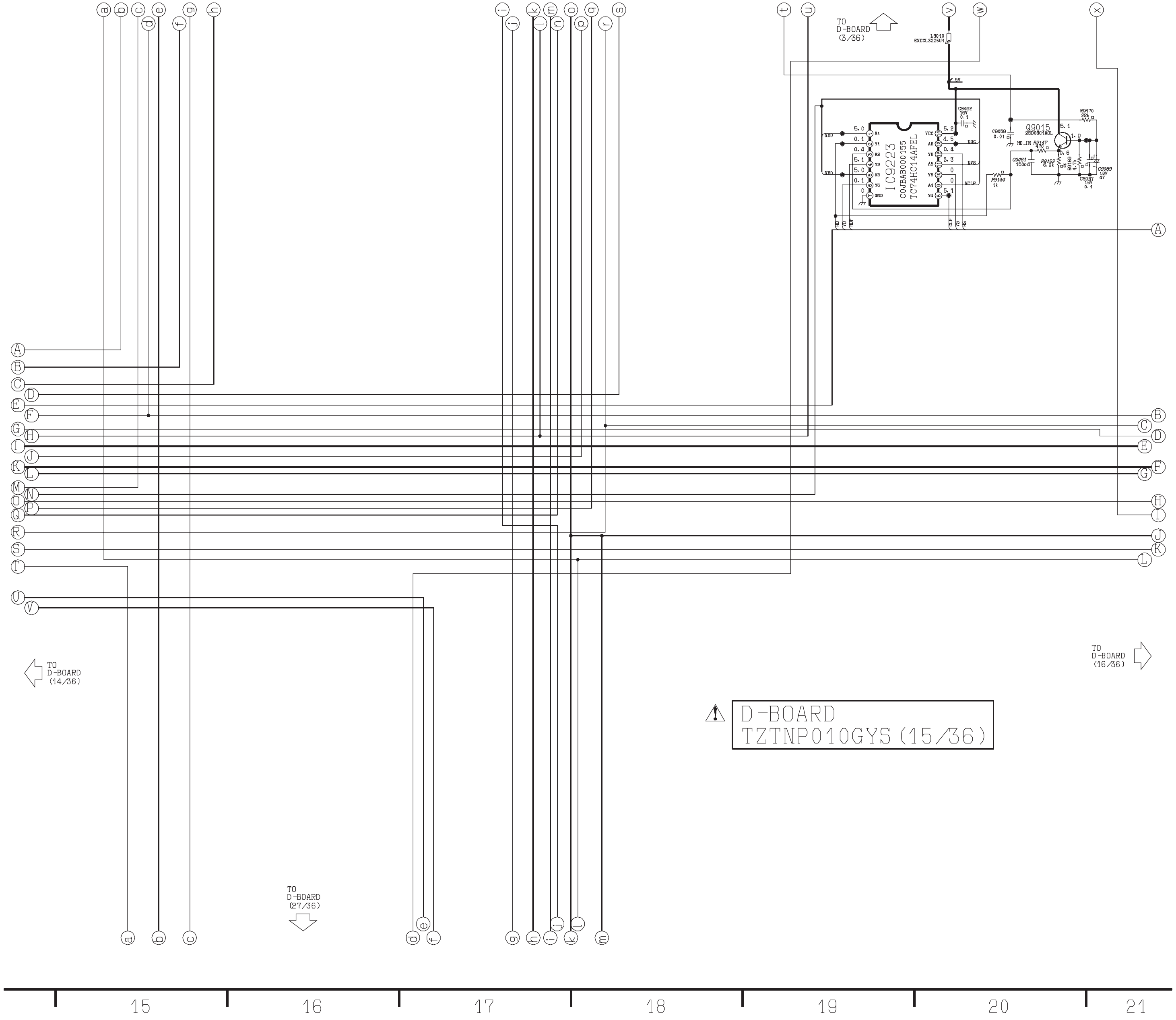
13.38. D-Board (13/36) Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
6
7
a
b
c
d
e
f
g
h
i
j
TO D-BOARD (1/36)
TO D-BOARD (14/36)
TO D-BOARD (25/36)
IC9012
CXA1315M-T4
SLV [48]
SW1
SW0
DAC4
DAC3
DAC2
DAC1
GND
VCC
SCL
SDA
SAD2
SAD1
SAD0
SW3
SW2
B.BRT
G.BRT
R.BRT
CONTRAST
L9008
EXCCL3225U1
R9207 10k
R9208 10k
C9560 0.1
R9326 10k
R9328 10k
3.6V
TP64
C9042 16V 4.7
Q9009 2SD0601A0L
Q9010 2SD0601A0L
Q9011 2SD0601A0L
R9047 180
R9048 180
R9049 180
R9074 1.8k
R9075 1.8k
R9076 1.8k
LC9018 J0E8004B0006
LC9019 J0E2006B0004
LC9020 J0E3606B0001
8MHz
20MHz
35MHz
R9089 180
R9090 180
R9091 180
R9062 180
R9063 180
R9064 180
IC9002
C0ABGB000001
AD8055ART
R9036 2.70k
C9039 3p
R9028 750
R9037 820
R9017 5.11k
R9023 22
R9018 1.74k
C9016 16V 0.1
C9013 25V 22
TP15
TP23
IC9006
M52055FP
IN3B
GND3
IN2A
SW2
VCC
IN2B
GND1
IN1A
IN3A
SW3
OUT3
OUT2
GND2
OUT1
SW1
IN1B
4.6V
3.2V
C9034
C9035
C9036
C9024
C9022 0.1
R9101 220
R9102 220
R9103 220
R9104 220
R9113 220
C9049 16V 4.7u
R9860 1k
R9859 1k
R9858 1k
D-BOARD
TZTNP010GYS (13/36)

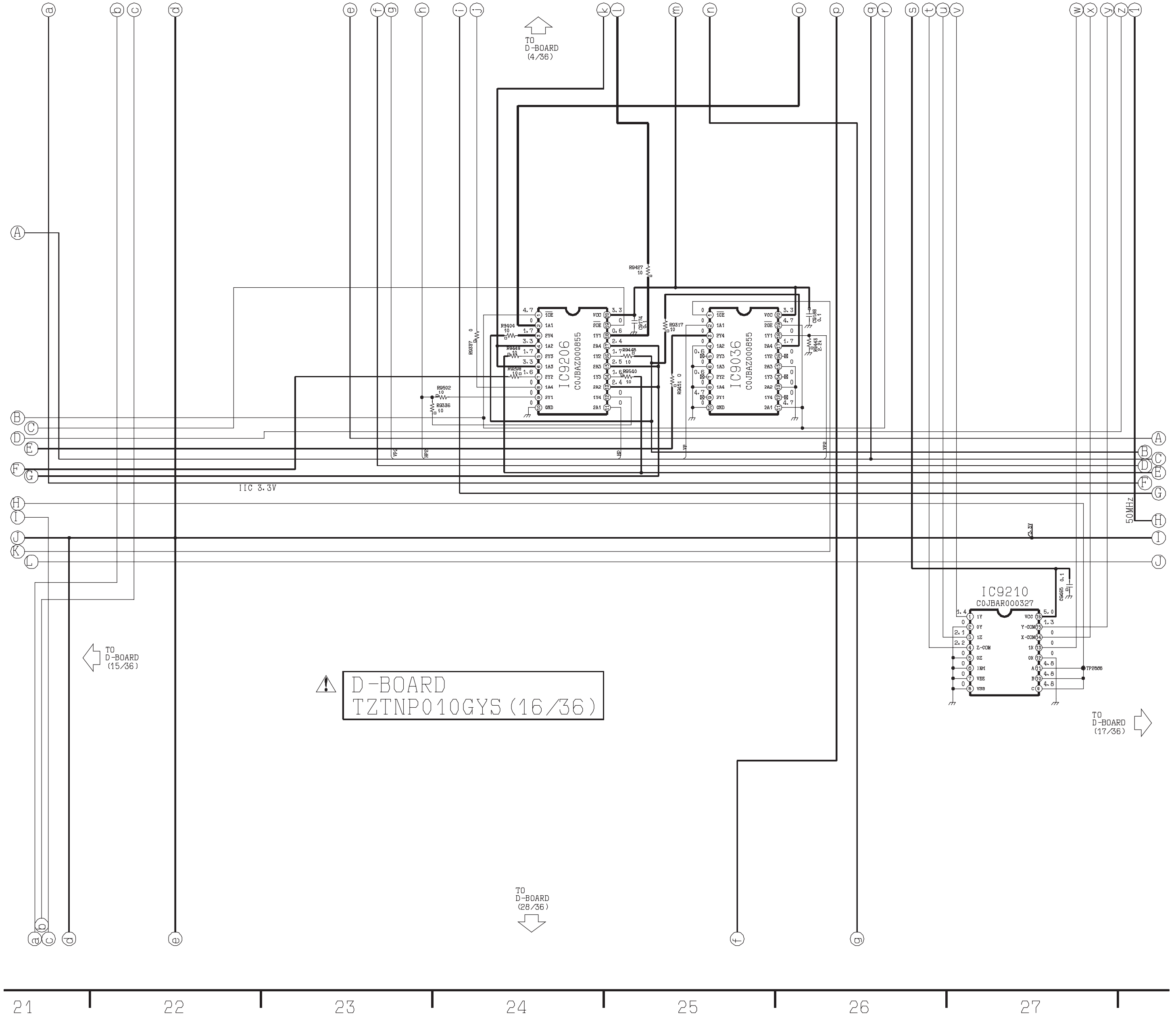
13.39. D-Board (14/36) Schematic Diagram


D-BOARD
TZTNP010GYS(14/36)
TO D-BOARD (2/36)
TO D-BOARD (13/36)
TO D-BOARD (15/36)
TO D-BOARD (26/36)
R9191 22
R9192 22
SCL2
SDA2
CLP
R9293 1k
Q9902 2SD0601A0L
Q9903 2SD0601A0L
R9917 47k
R9918 10k
C9926 0.01
R9919 10k
R9920 100
R9921 560
R9303 8.2k
R9962 EXB38V103JV
R9963 EXB38V103JV
R9964 EXB38V103JV
R9965 EXB38V103JV
R9967 10k
R9969 10k
TP244
TP238
TP248
TP251
TP253
TP256
CBK
HZ
CEL
CSL
CSH
CML
CMH
CL
CLK
SIU
SID
SCSU
CPL
CPH
RES
VEH
VSLU
VSHU
VMLU
VMHU
VE2H
VBK
a b c d e f g h i j k l m n o p q r s t u v w x y z
1 2 3 4 5 6 7 8 9 10 11 12 13 14
A B C D E F G H I J K L M N O P Q R S T U V
8 9 10 11 12 13 14

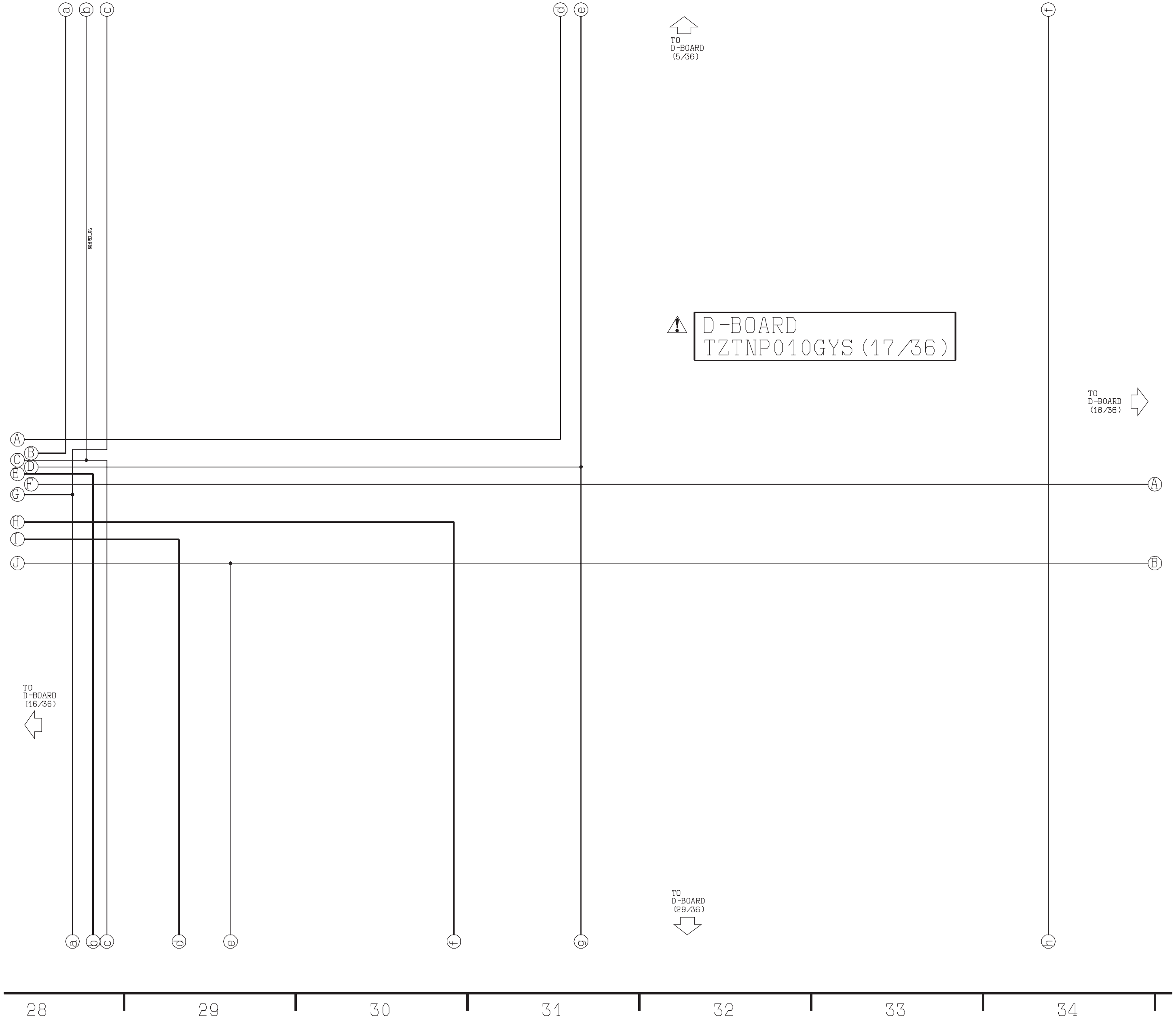
13.40. D-Board (15/36) Schematic Diagram


TO
D-BOARD
(3/36)
L9010
EXCCL3225U1
5V
IC9223
C0JBAB000155
TC74HC14AFEL
VCC
GND
A1
Y1
A2
Y2
A3
Y3
A4
Y4
A5
Y5
A6
Y6
NHD
NVD
NHS
NVS
NCLP
HD
VD
HDP
CLP
VS
HS
C9462
16V
0.1
Q9015
2SD0601A0L
C9059
0.01
HD_IN
R9147
470
C9061
150p
R9152
6.2k
R9169
4.7k
R9170
22k
C9067
16V
0.1
C9069
16V
47
R9144
1k
TO
D-BOARD
(14/36)
TO
D-BOARD
(16/36)
TO
D-BOARD
(27/36)
D-BOARD
TZTNP010GYS(15/36)
15
16
17
18
19
20
21

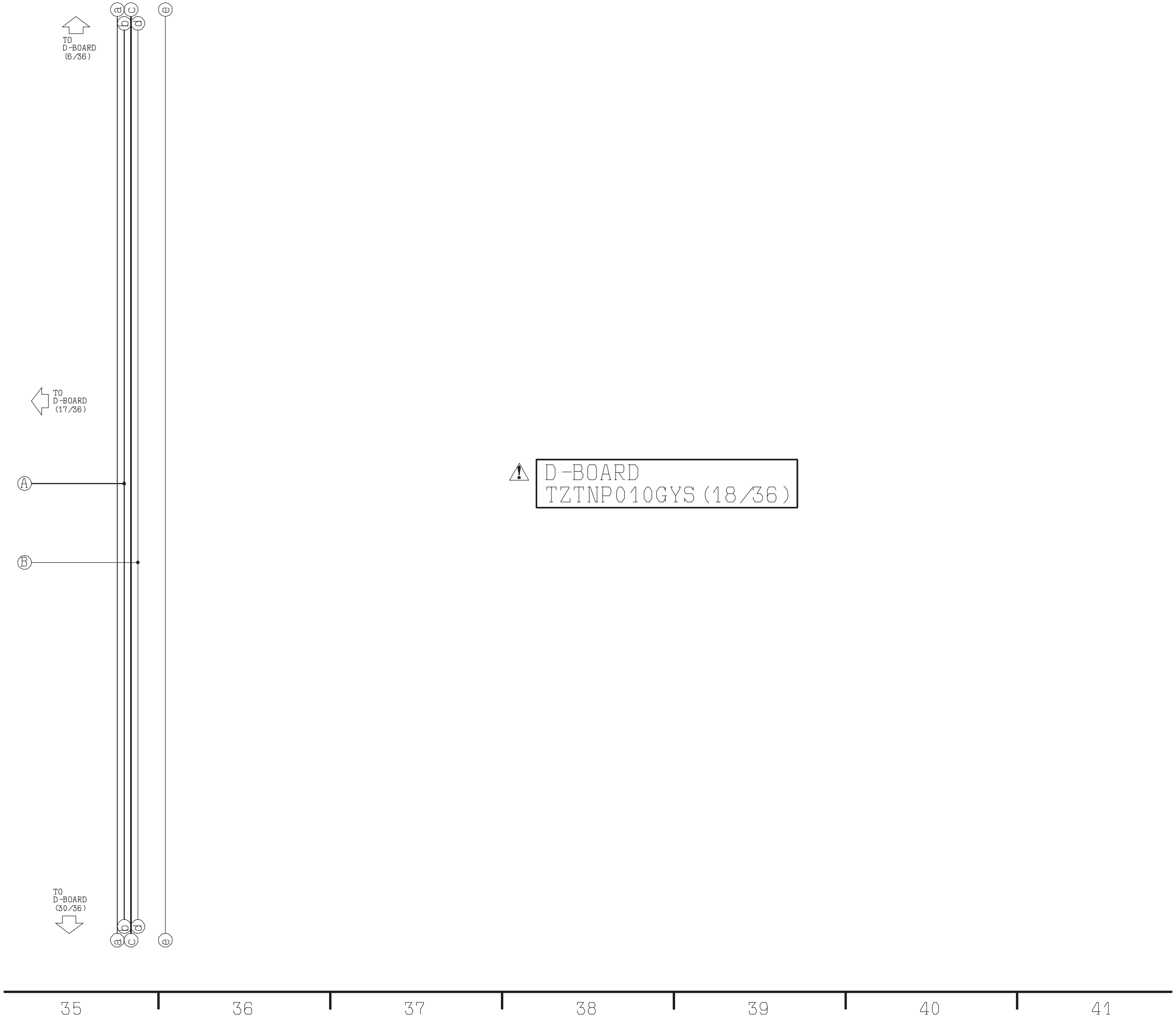
13.41. D-Board (16/36) Schematic Diagram


TO D-BOARD (4/36)
TO D-BOARD (15/36)
TO D-BOARD (28/36)
TO D-BOARD (17/36)
IC9206
C0JBAZ000855
IC9036
C0JBAZ000855
IC9210
C0JBAR000327
D-BOARD
TZTNP010GYS(16/36)
IIC 3.3V
50MHz
R9427
R9404
R9428
R9298
R9337
R9502
R9036
R9317
R9451
R9445
R9540
C9174
C9188
C9425
TP2588
21
22
23
24
25
26
27

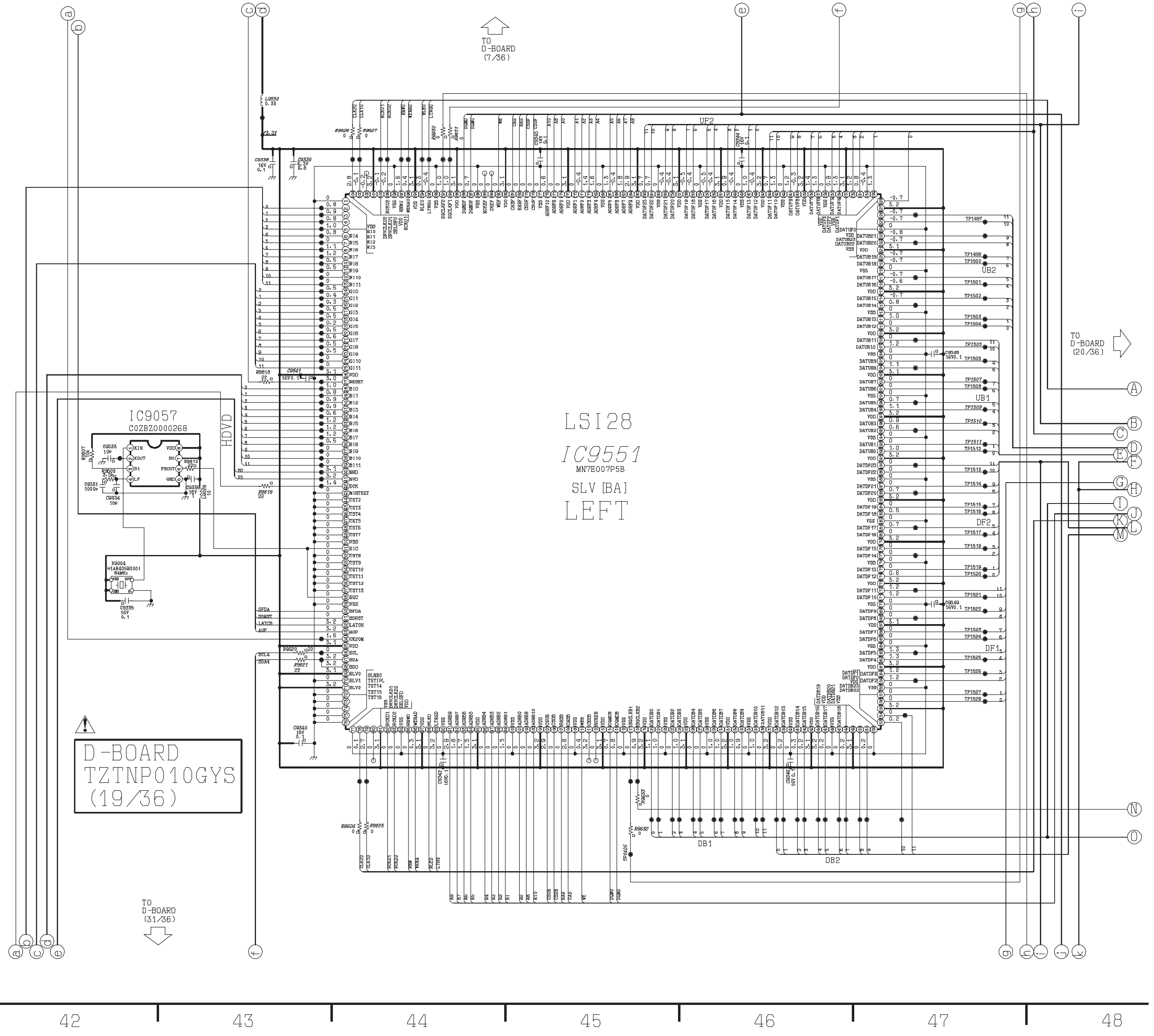
13.42. D-Board (17/36) Schematic Diagram


a
b
c
d
e
f
TO D-BOARD (5/36)
BGARD_CL
D-BOARD
TZTNP010GYS(17/36)
TO D-BOARD (18/36)
A
B
C
D
E
F
G
H
I
J
TO D-BOARD (16/36)
TO D-BOARD (29/36)
g
h
28
29
30
31
32
33
34

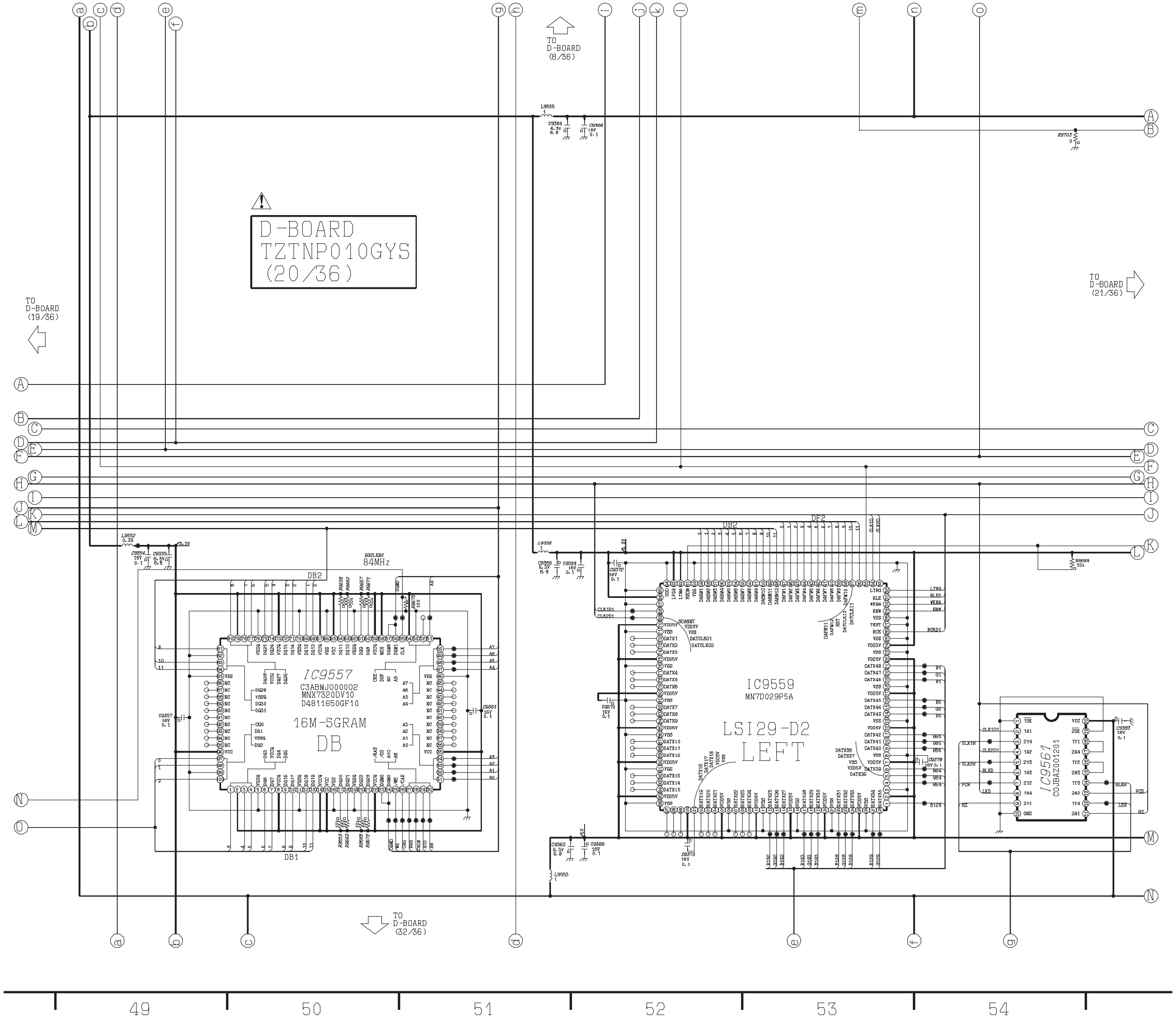
13.43. D-Board (18/36) Schematic Diagram


TO
D-BOARD
(6/36)
TO
D-BOARD
(17/36)
TO
D-BOARD
(30/36)
a
b
c
d
e
A
B
D-BOARD
TZTNP010GYS(18/36)
35
36
37
38
39
40
41

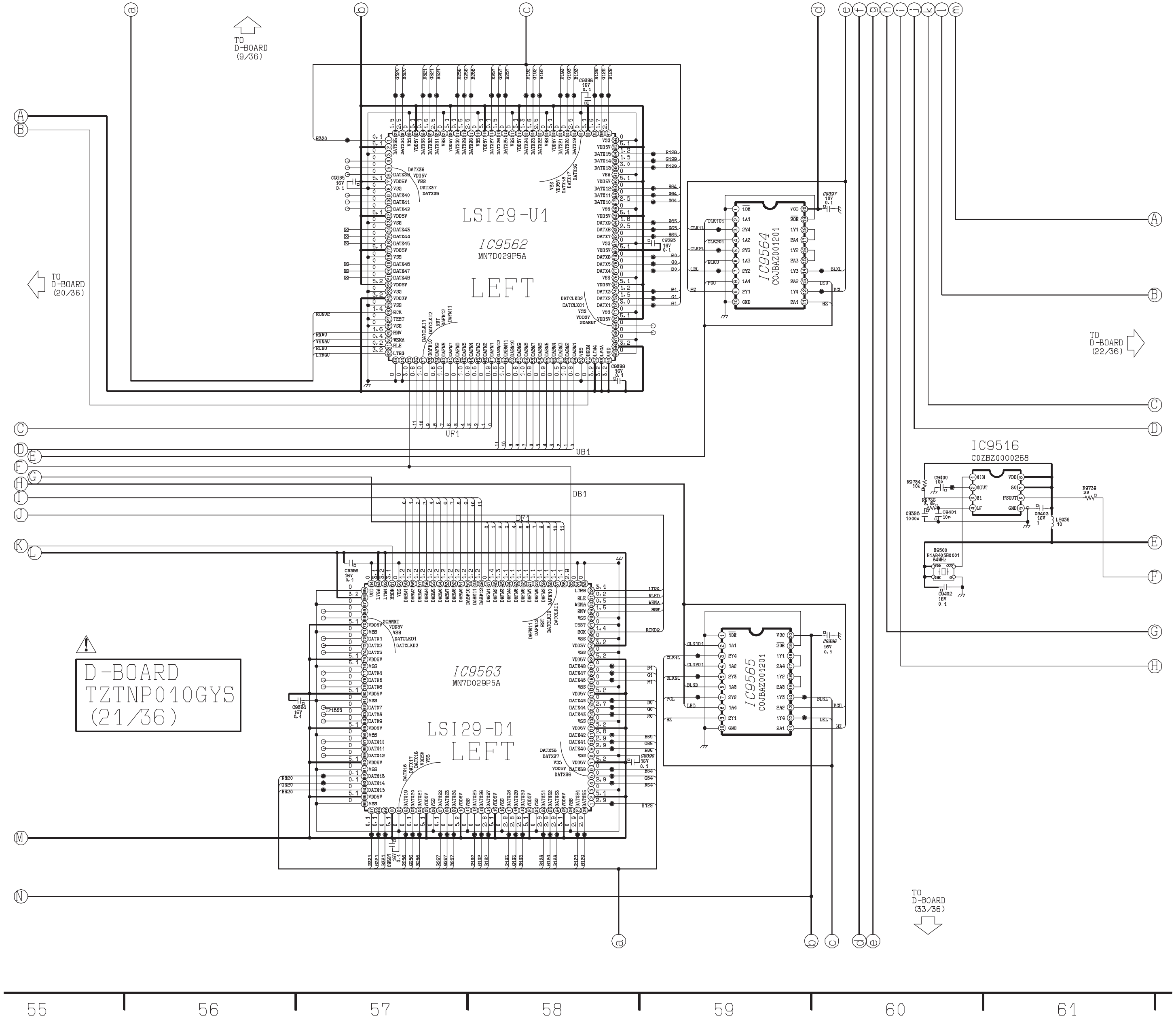
13.44. D-Board (19/36) Schematic Diagram


LSI28
IC9551
MN7E007P5B
SLV [BA]
LEFT
IC9057
C0ZBZ0000268
HDVD
X9004
D-BOARD
TZTNP010GYS
(19/36)
TO D-BOARD (7/36)
TO D-BOARD (20/36)
TO D-BOARD (31/36)
UF2
UB2
UB1
DF2
DF1
DB1
DB2
3.3V
L9550
0.33
42
43
44
45
46
47
48

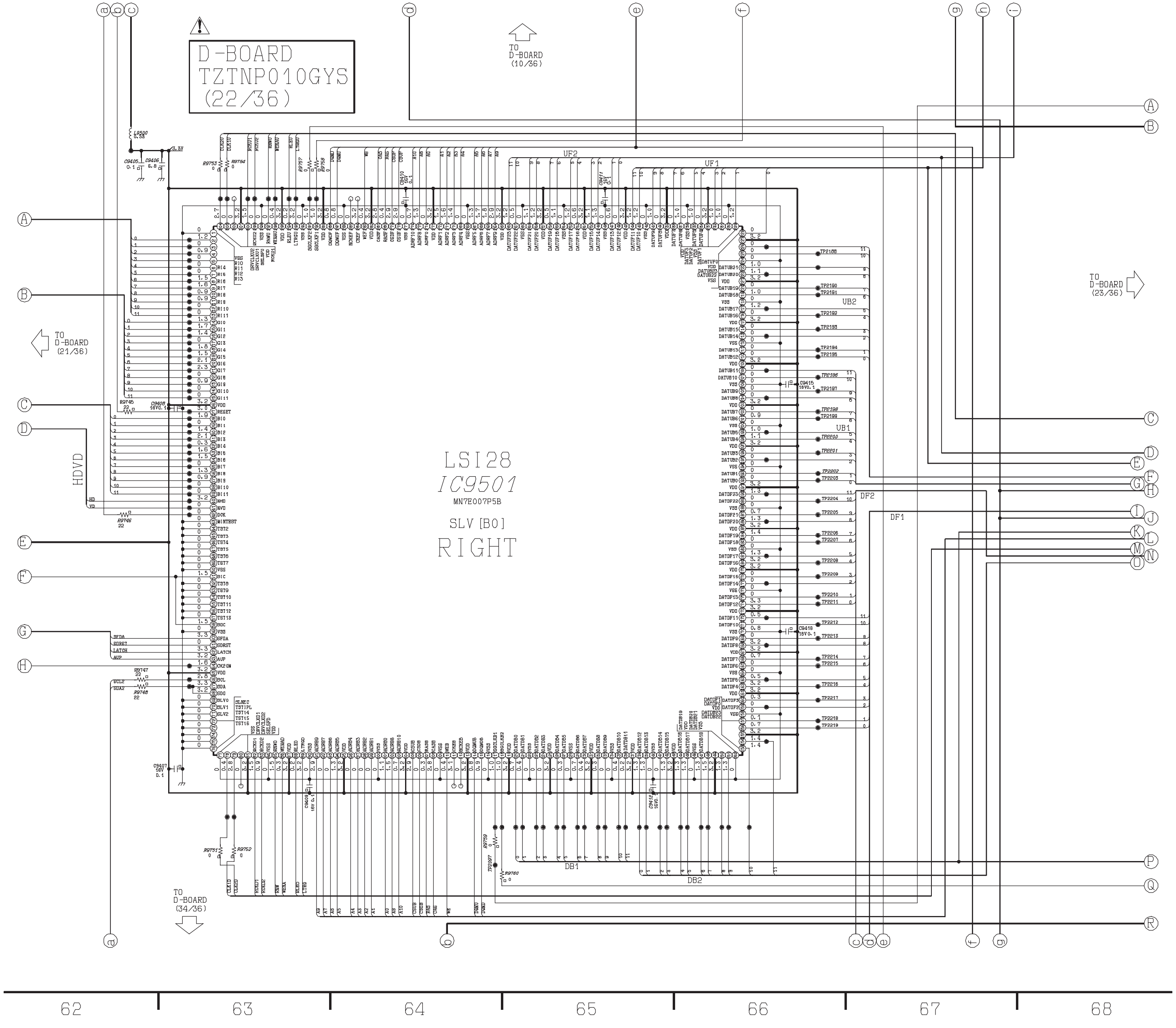
13.45. D-Board (20/36) Schematic Diagram


D-BOARD
TZTNP010GYS
(20/36)
TO D-BOARD (8/36)
TO D-BOARD (19/36)
TO D-BOARD (21/36)
TO D-BOARD (32/36)
IC9557
C3ABMJ000002
MNX7320DV10
D4811650GF10
16M-SGRAM
DB
IC9559
MN7D029P5A
LSI29-D2
LEFT
IC9561
C0JBAZ001201
X9502 84MHz
DB1
DB2
DF2
L9556
L9552
L9553
L9558
C9354
C9355
C9356
C9357
C9358
C9361
C9362
C9363
C9364
C9366
C9370
C9372
C9373
C9378
R9703
R9699
49
50
51
52
53
54

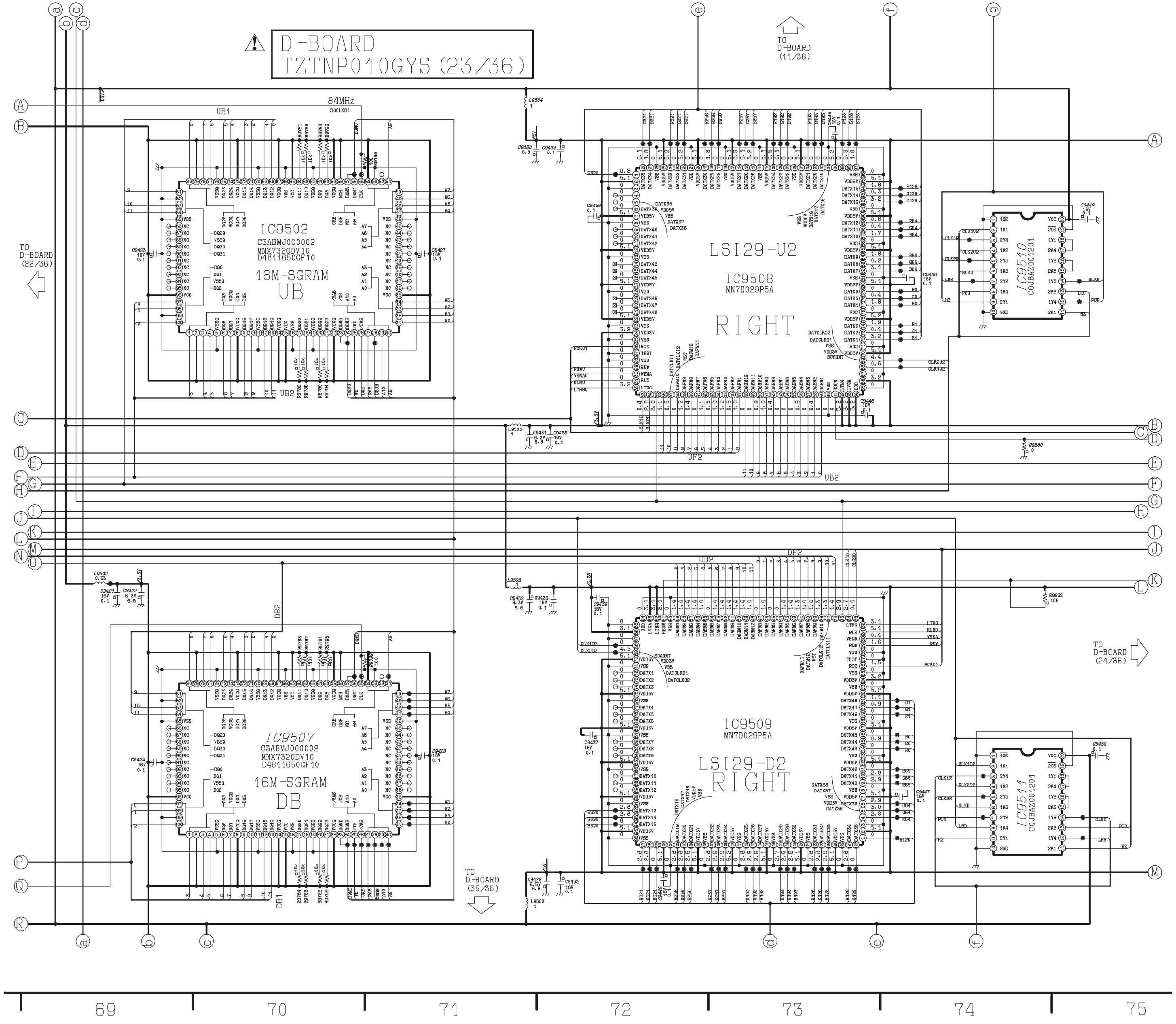
13.46. D-Board (21/36) Schematic Diagram


TO D-BOARD (9/36)
TO D-BOARD (20/36)
TO D-BOARD (22/36)
TO D-BOARD (33/36)
LSI29-U1
IC9562
MN7D029P5A
LEFT
IC9564
C0JBAZ001201
IC9565
C0JBAZ001201
IC9516
C0ZBZ0000268
X9500
LSI29-D1
IC9563
MN7D029P5A
LEFT
UF1
UB1
DB1
DF1
D-BOARD
TZTNP010GYS
(21/36)
55
56
57
58
59
60
61

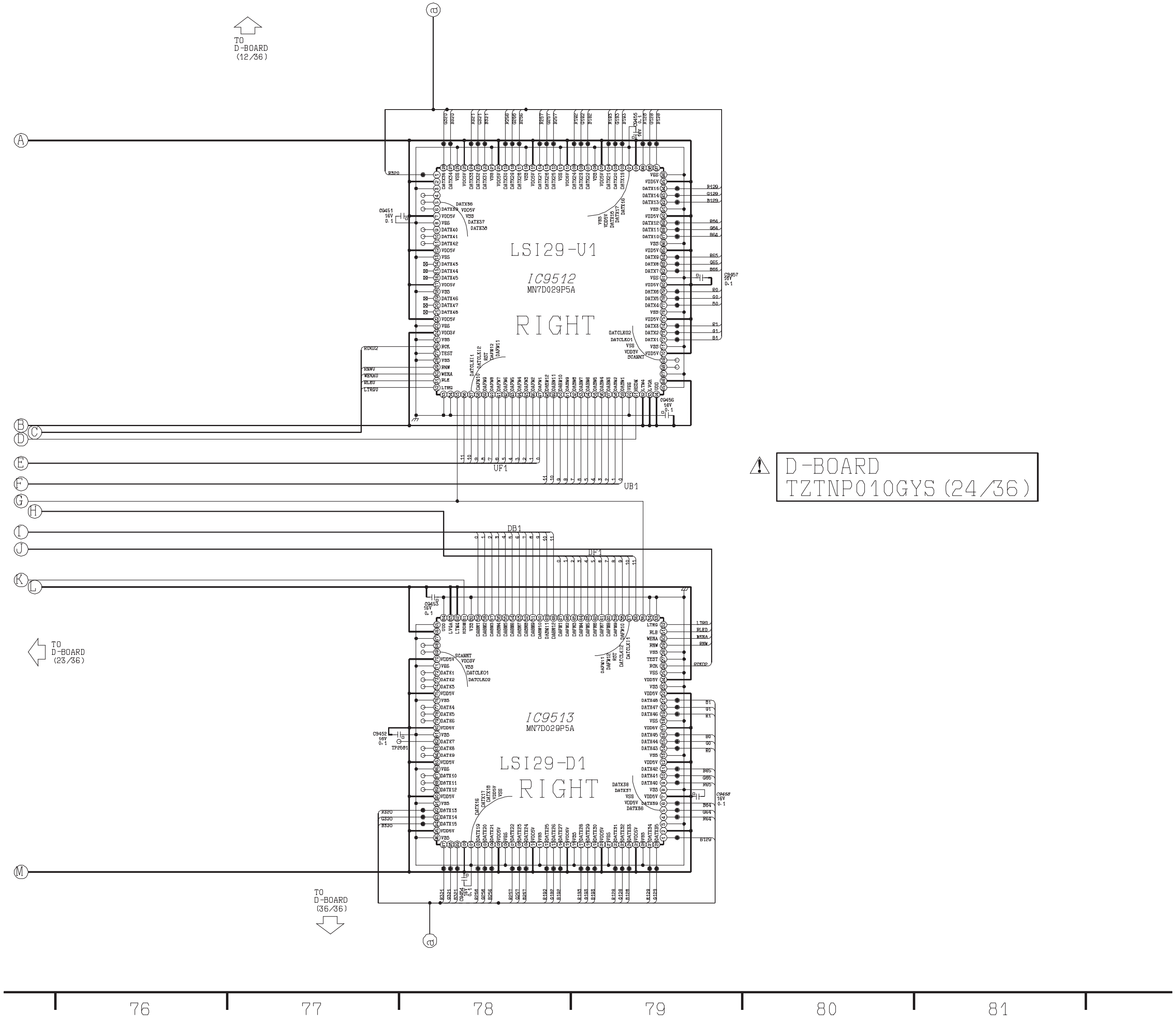
13.47. D-Board (22/36) Schematic Diagram


D-BOARD
TZTNP010GYS
(22/36)
TO D-BOARD (10/36)
TO D-BOARD (23/36)
TO D-BOARD (21/36)
TO D-BOARD (34/36)
LSI28
IC9501
MN7E007P5B
SLV [B0]
RIGHT
HDVD
UF1
UF2
UB1
UB2
DF1
DF2
DB1
DB2
L9500 0.38
C9405 0.1
C9406 6.8
3.3V
R9745 22
R9746 22
R9747 22
R9748 22
R9751 0
R9752 0
R9753 0
R9754 0
R9757 0
R9758 0
R9759 0
R9760 0
C9407 16V 0.1
C9408 16V 0.1
C9409 16V 0.1
C9410 16V 0.1
C9411 16V 0.1
C9412 16V 0.1
C9415 16V 0.1
C9418 16V 0.1
SFDA
SDRST
LATCH
AVP
SCL2
SDA2
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
a
b
c
d
e
f
g
h
i
62
63
64
65
66
67
68

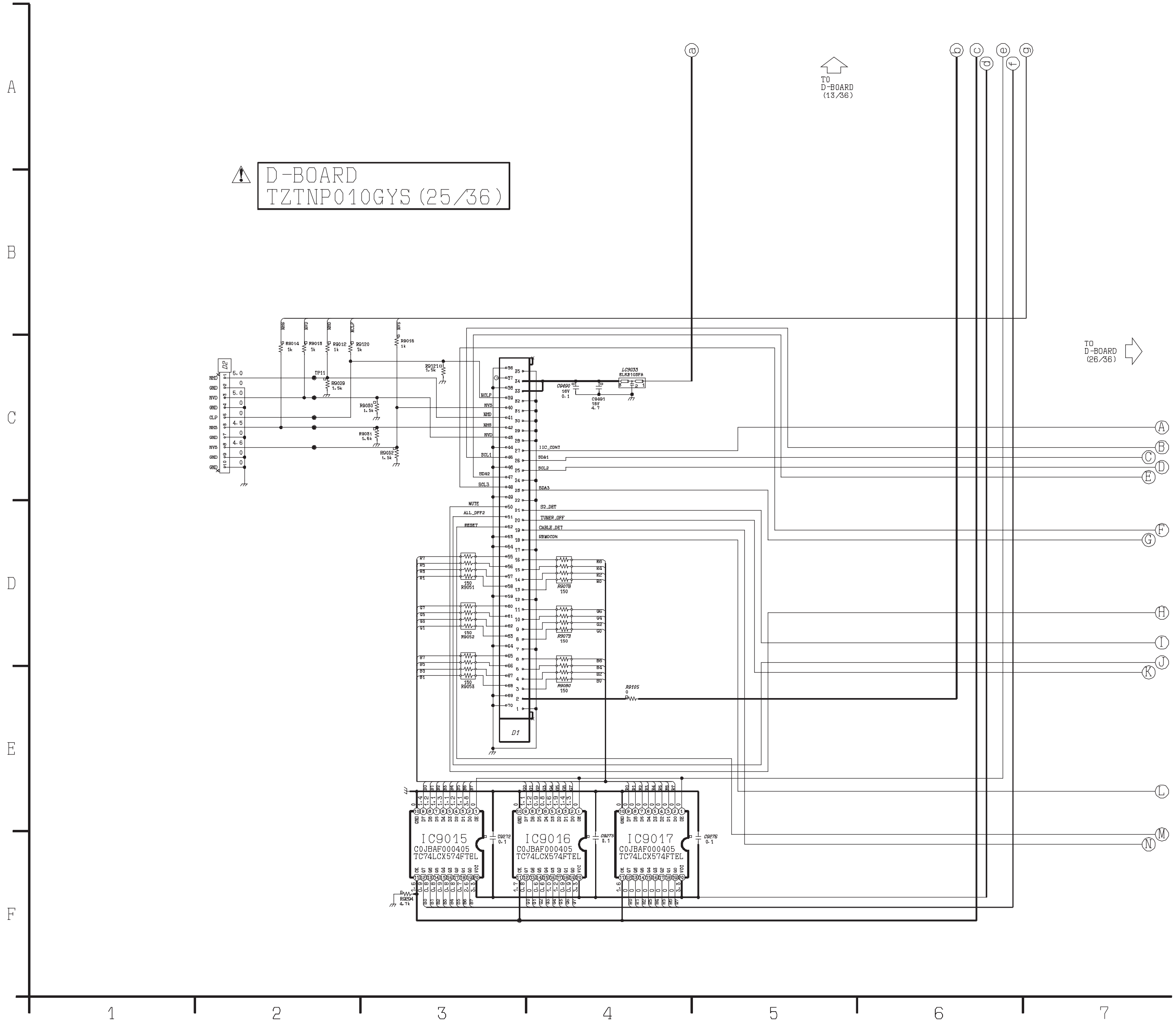
13.48. D-Board (23/36) Schematic Diagram


D-BOARD
TZTNP010GYS(23/36)
TO D-BOARD (11/36)
TO D-BOARD (22/36)
TO D-BOARD (24/36)
TO D-BOARD (35/36)
84MHz
IC9502
C3ABMJ000002
MNX7320DV10
D4811650GF10
16M-SGRAM
UB
IC9507
C3ABMJ000002
MNX7320DV10
D4811650GF10
16M-SGRAM
DB
LSI29-U2
IC9508
MN7D029P5A
RIGHT
IC9509
MN7D029P5A
LSI29-D2
RIGHT
IC9510
C0JBAZ001201
IC9511
C0JBAZ001201
UB1
UB2
DB1
DB2
UF2
DF2
L9502
L9503
L9504
L9505
L9506
69
70
71
72
73
74
75

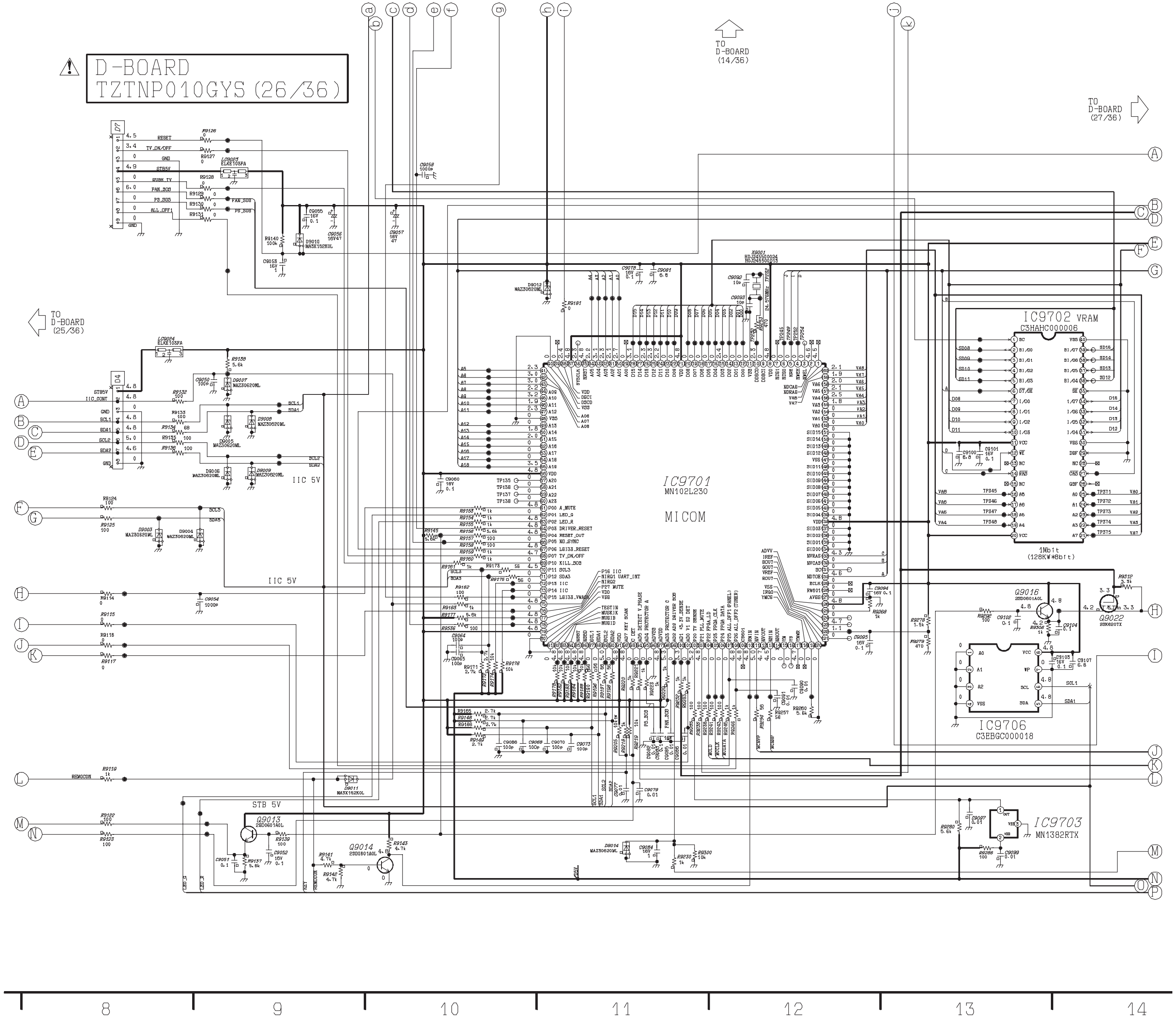
13.49. D-Board (24/36) Schematic Diagram


TO D-BOARD (12/36)
LSI29-U1
IC9512
MN7D029P5A
RIGHT
LSI29-D1
IC9513
MN7D029P5A
RIGHT
D-BOARD
TZTNP010GYS(24/36)
UF1
UB1
DB1
DF1
TO D-BOARD (23/36)
TO D-BOARD (36/36)
C9451 16V 0.1
C9452 16V 0.1
C9453 16V 0.1
C9456 16V 0.1
C9457 16V 0.1
C9458 16V 0.1
TP2681
A
B
C
D
E
F
G
H
I
J
K
L
M
a
76
77
78
79
80
81

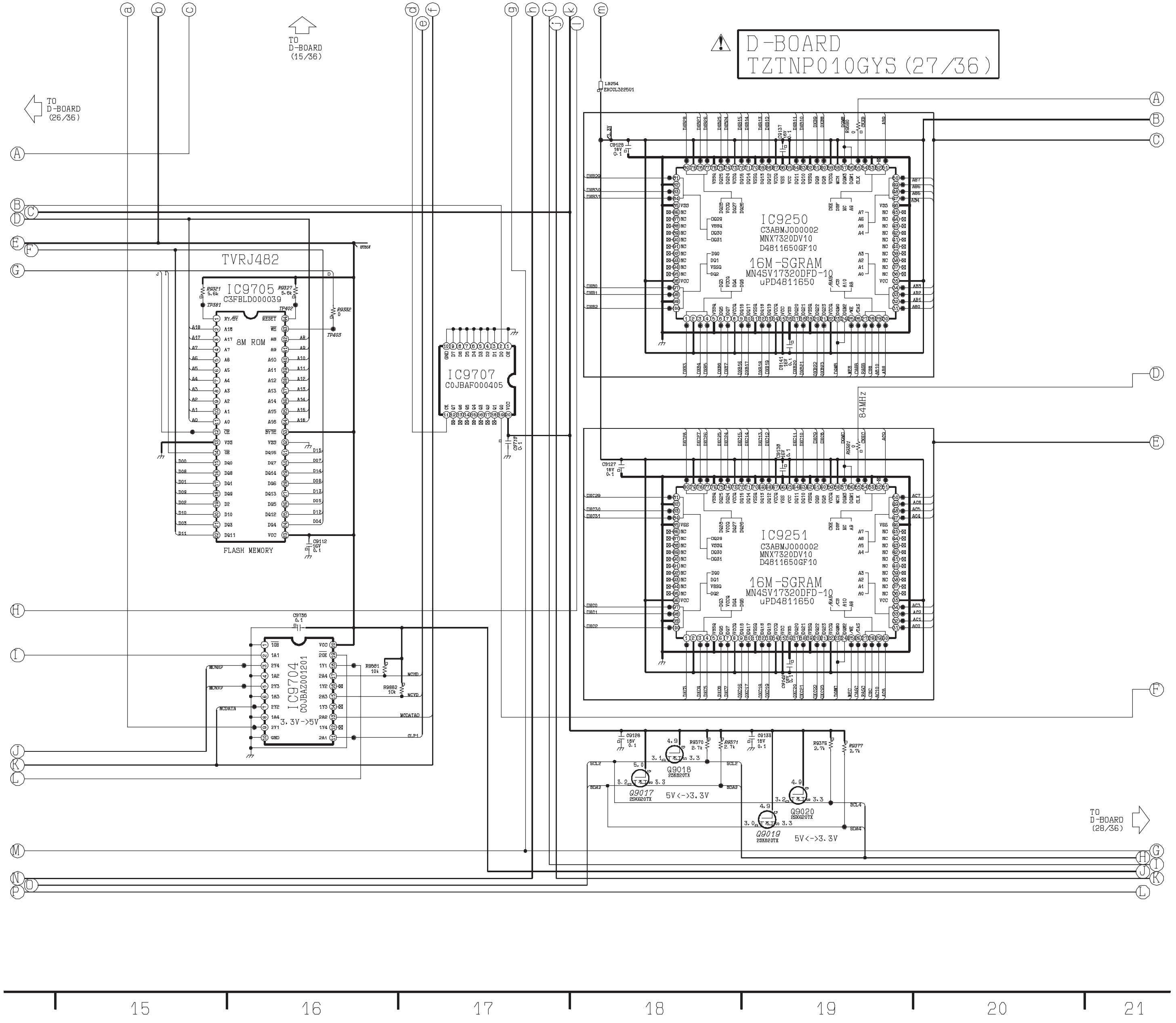
13.50. D-Board (25/36) Schematic Diagram


D-BOARD
TZTNP010GYS(25/36)
TO
D-BOARD
(13/36)
TO
D-BOARD
(26/36)
D1
D2
IC9015
C0JBAF000405
TC74LCX574FTEL
IC9016
C0JBAF000405
TC74LCX574FTEL
IC9017
C0JBAF000405
TC74LCX574FTEL
IC9053
ELKE103FA
C9490
C9491
C9272
C9273
C9276
R9014
R9015
R9016
R9012
R9120
R9121
R9029
R9050
R9051
R9032
R9051
R9052
R9053
R9078
R9079
R9080
R9105
R9094
TP11
NCLP
NVD
NHD
NHS
NVS
SCL1
SDA2
SCL3
MUTE
ALL_OFF2
RESET
IIC_CONT
SDA1
SCL2
SDA3
S2_DET
TUNER_OFF
CABLE_DET
REMOCON
A
B
C
D
E
F
G
H
I
J
K
L
M
N
a
b
c
d
e
f
g
1
2
3
4
5
6
7
A
B
C
D
E
F

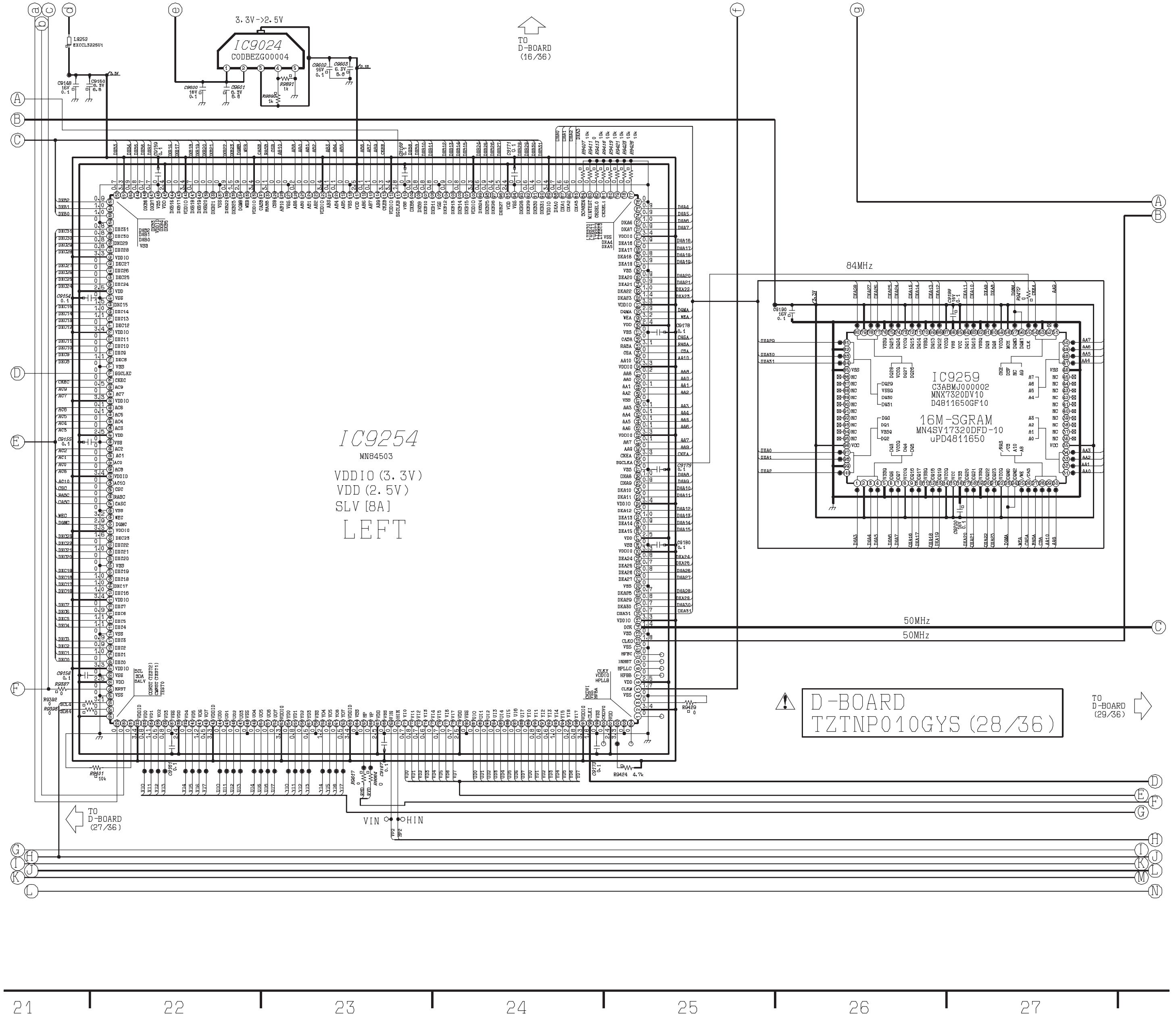
13.51. D-Board (26/36) Schematic Diagram


D-BOARD
TZTNP010GYS(26/36)
TO D-BOARD (14/36)
TO D-BOARD (27/36)
TO D-BOARD (25/36)
IC9701
MN102L230
MICOM
IC9702 VRAM
C3HAHC000006
1Mbit
(128KW×8bit)
IC9706
C3EBGC000018
IC9703
MN1382RTX
Q9013
2SD0601A0L
Q9014
2SD0601A0L
Q9016
2SD0601A0L
Q9022
2SK620TX
STB 5V
IIC 5V
RESET
TV_ON/OFF
GND
STB5V
WOBH_TV
FAN_SOS
PS_SOS
ALL_OFF1
IIC_CONT
SCL1
SDA1
SCL2
SDA2
REMOCON
8
9
10
11
12
13
14

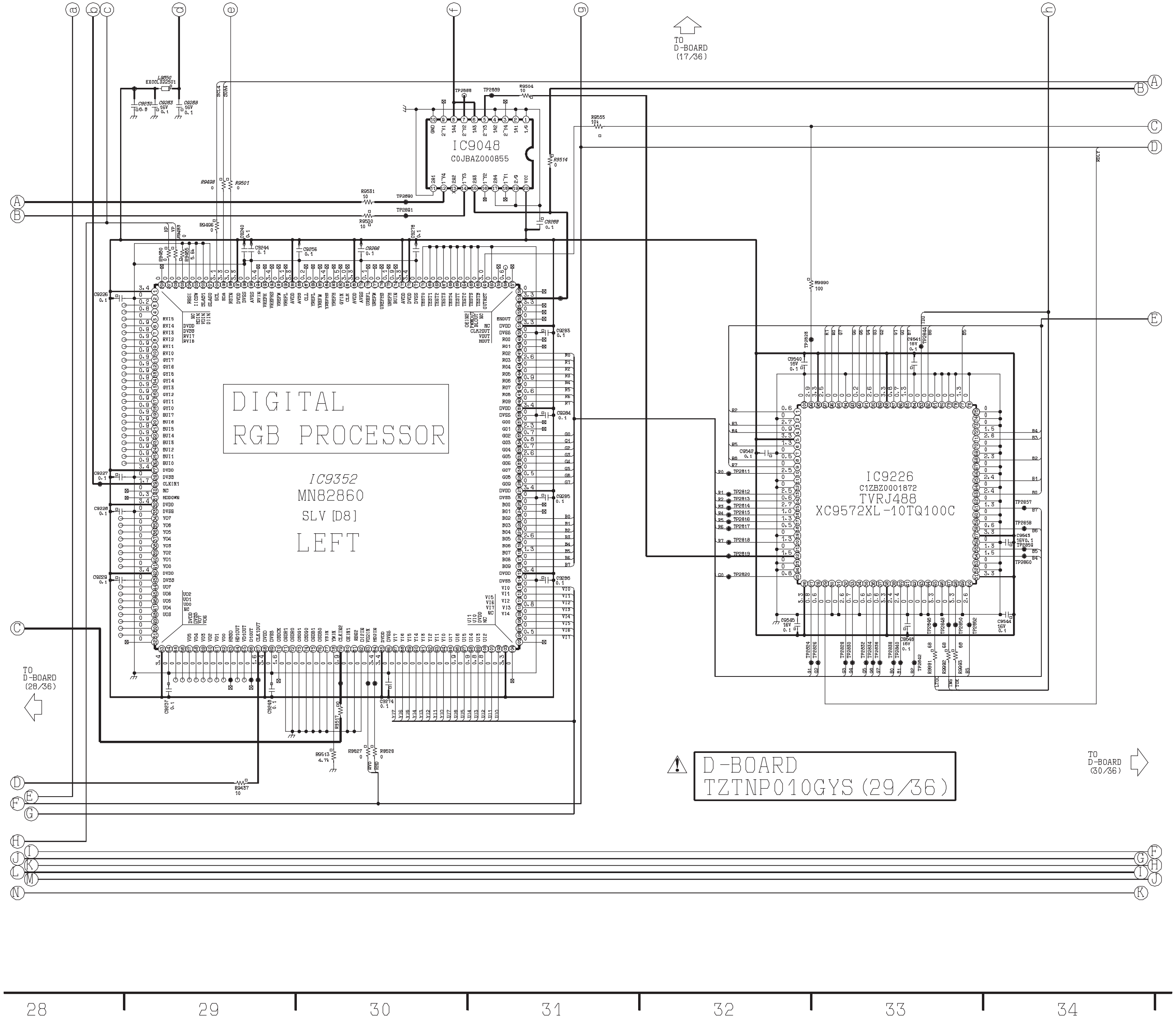
13.52. D-Board (27/36) Schematic Diagram


D-BOARD
TZTNP010GYS(27/36)
TO D-BOARD (15/36)
TO D-BOARD (26/36)
TO D-BOARD (28/36)
TVRJ482
IC9705
C3FBLD000039
8M ROM
FLASH MEMORY
IC9707
C0JBAF000405
IC9250
C3ABMJ000002
MNX7320DV10
D4811650GF10
16M-SGRAM
MN4SV17320DFD-10
uPD4811650
IC9251
C3ABMJ000002
MNX7320DV10
D4811650GF10
16M-SGRAM
MN4SV17320DFD-10
uPD4811650
IC9704
C0JBAZ001201
3.3V->5V
84MHz
Q9017
Q9018
Q9019
Q9020
5V<->3.3V
5V<->3.3V
15
16
17
18
19
20
21

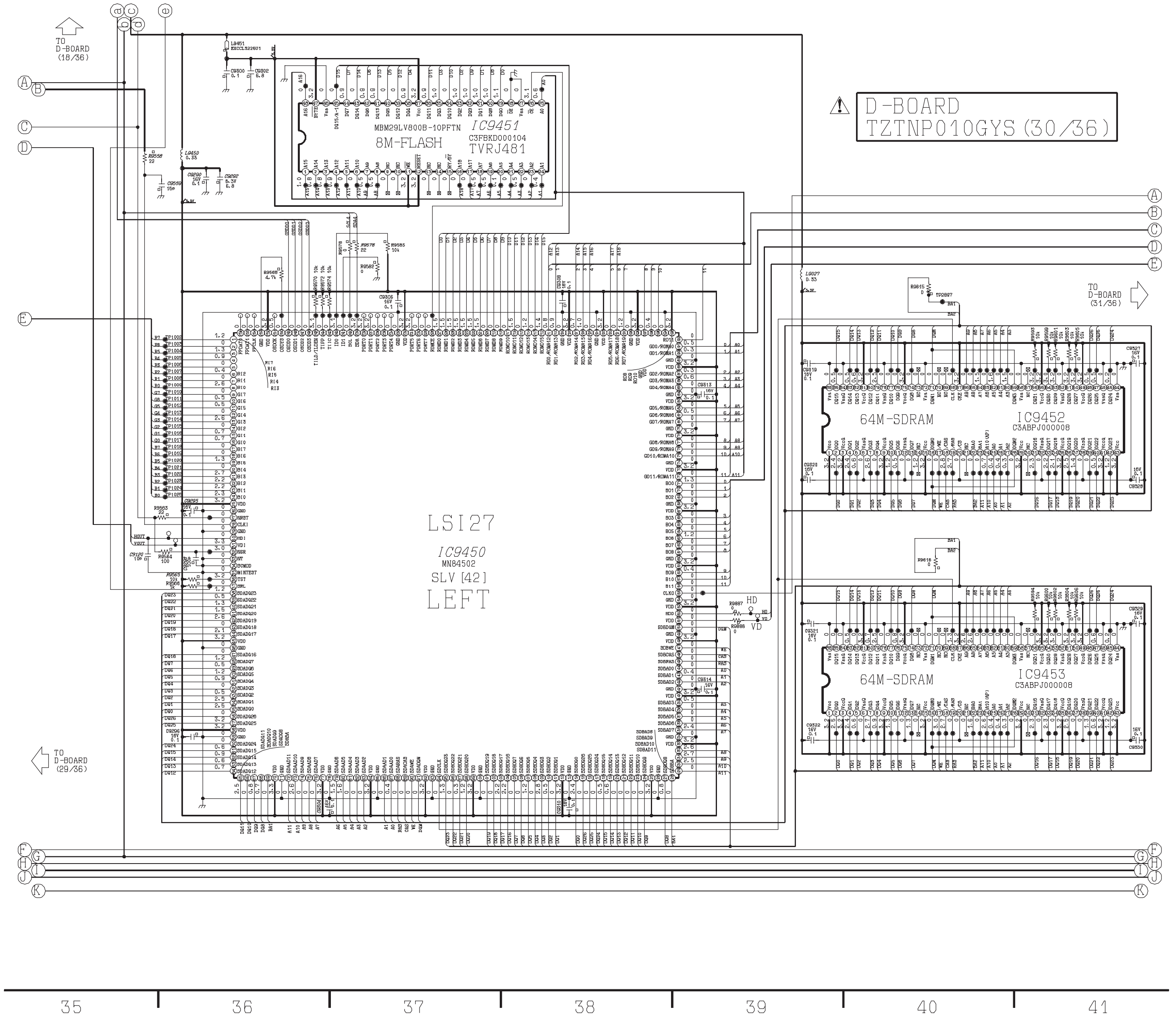
13.53. D-Board (28/36) Schematic Diagram


3.3V->2.5V
IC9024
C0DBEZG00004
L9252
TO D-BOARD (16/36)
IC9254
MN84503
VDDIO(3.3V)
VDD(2.5V)
SLV[8A]
LEFT
84MHz
IC9259
C3ABMJ000002
MNX7320DV10
D4B11650GF10
16M-SGRAM
MN4SV17320DFD-10
uPD4811650
50MHz
50MHz
D-BOARD
TZTNP010GYS(28/36)
TO D-BOARD (29/36)
TO D-BOARD (27/36)
VIN
HIN
R9424 4.7k
a
b
c
d
e
f
g
A
B
C
D
E
F
G
H
I
J
K
L
M
N
21
22
23
24
25
26
27

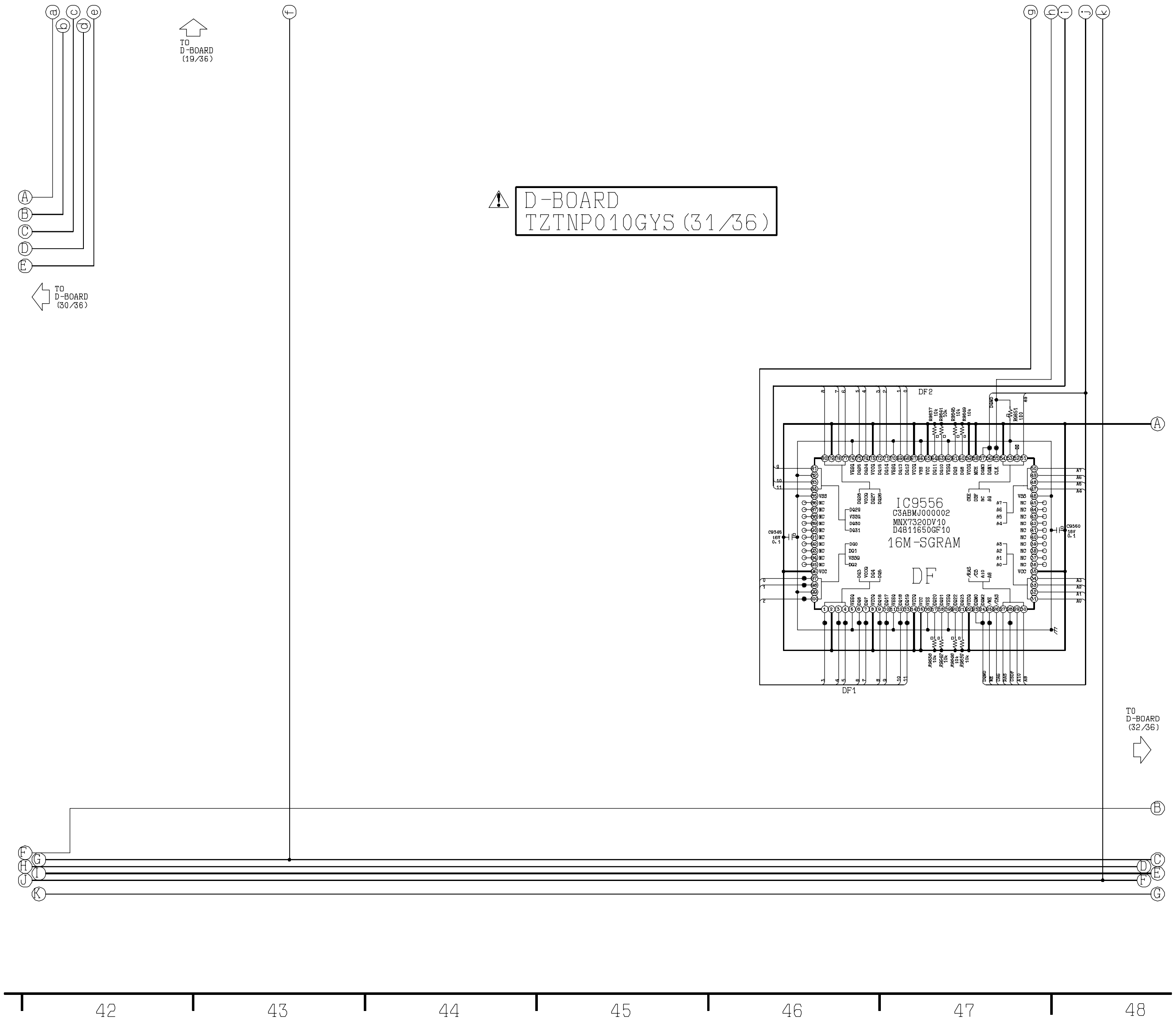
13.54. D-Board (29/36) Schematic Diagram


TO D-BOARD (17/36)
IC9048
C0JBAZ000855
DIGITAL RGB PROCESSOR
IC9352
MN82860
SLV [D8]
LEFT
IC9226
C1ZBZ0001872
TVRJ488
XC9572XL-10TQ100C
TO D-BOARD (28/36)
TO D-BOARD (30/36)
D-BOARD
TZTNP010GYS(29/36)
28
29
30
31
32
33
34

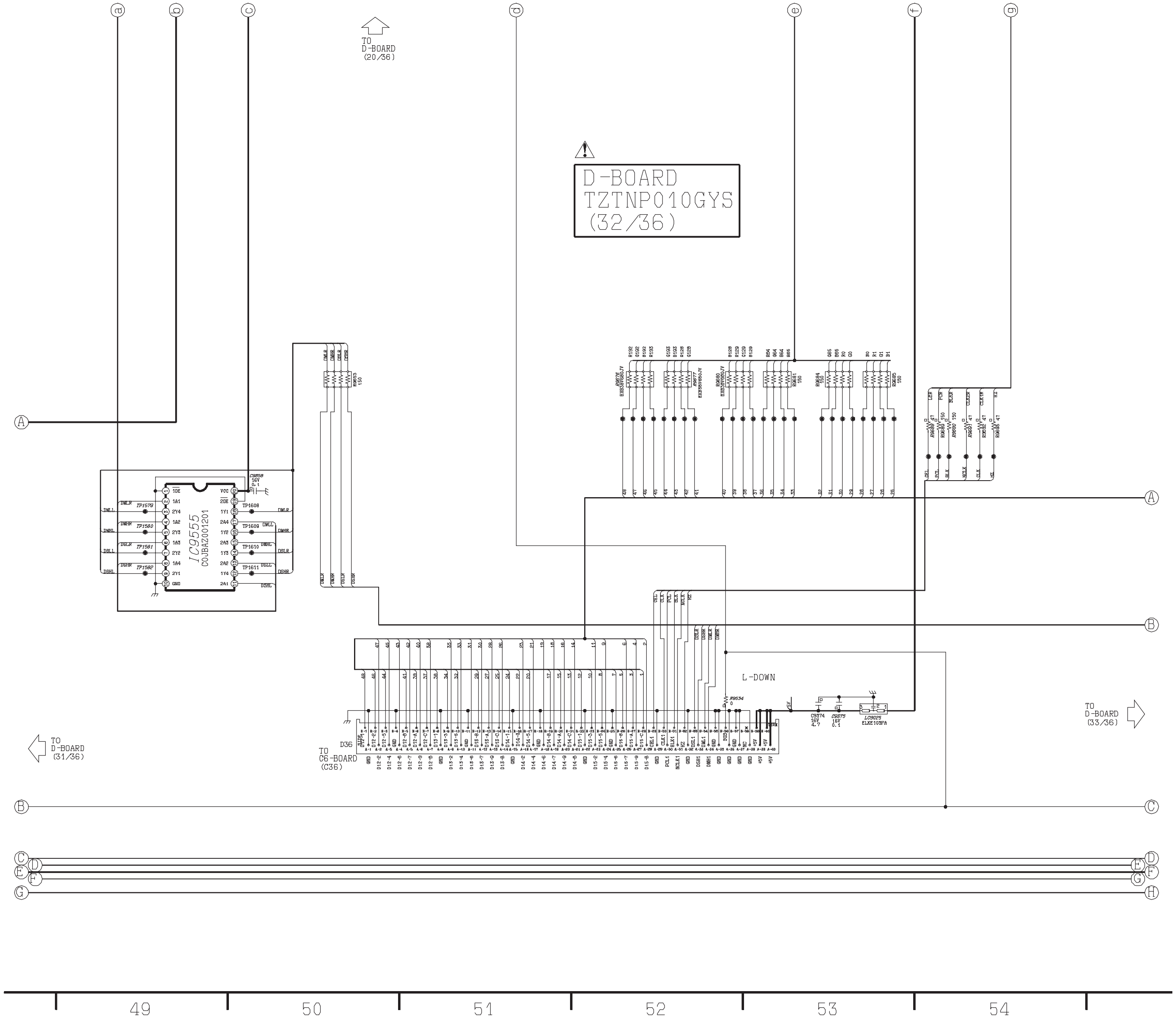
13.55. D-Board (30/36) Schematic Diagram


D-BOARD
TZTNP010GYS(30/36)
TO D-BOARD (18/36)
TO D-BOARD (31/36)
TO D-BOARD (29/36)
IC9451
MBM29LV800B-10PFTN
8M-FLASH
C3FBKD000104
TVRJ481
LSI27
IC9450
MN84502
SLV[42]
LEFT
IC9452
64M-SDRAM
C3ABPJ000008
IC9453
64M-SDRAM
C3ABPJ000008
HD
VD
L9451
L9450
L9027
TP2897
R9815
R9818
35
36
37
38
39
40
41

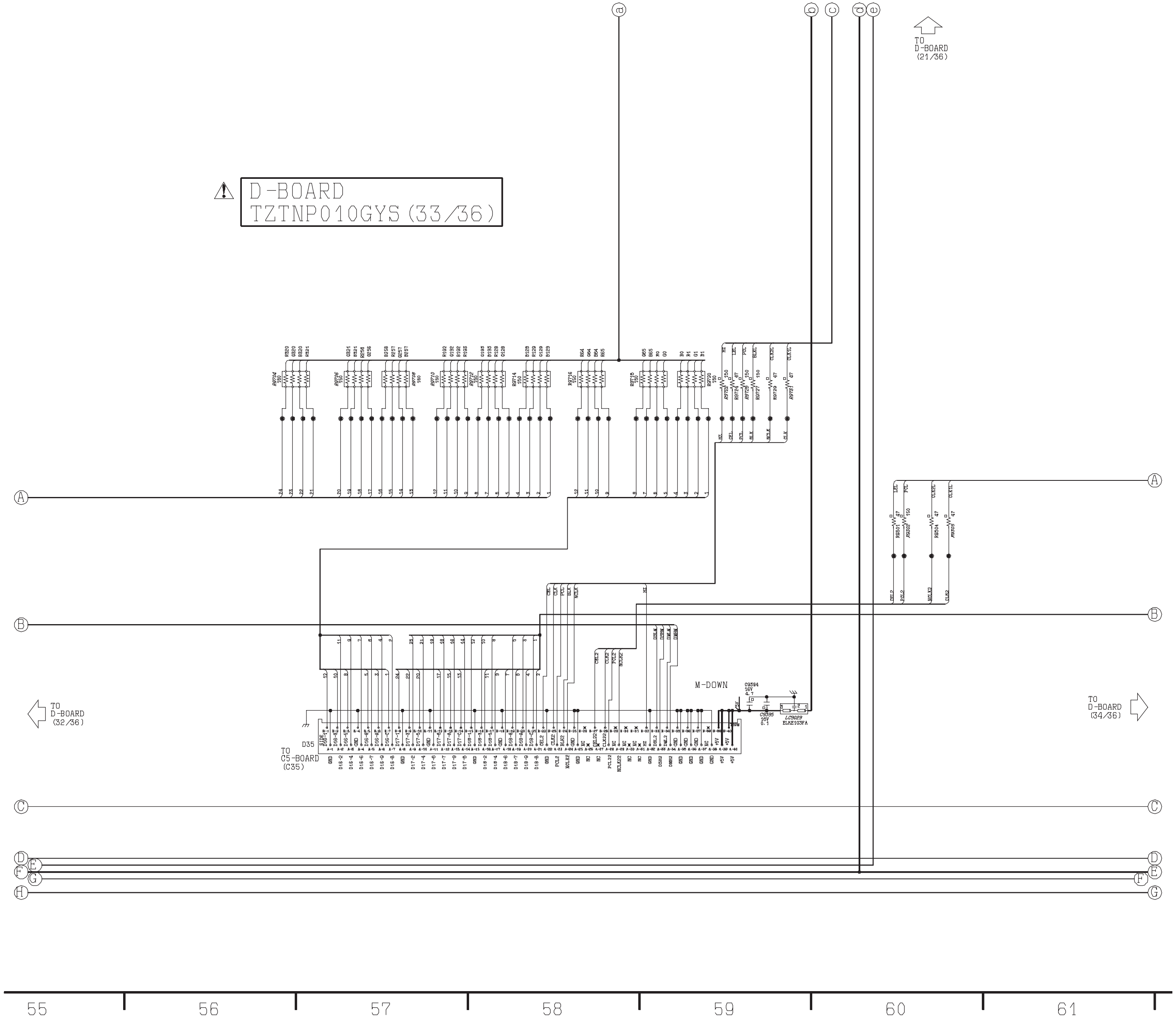
13.56. D-Board (31/36) Schematic Diagram


D-BOARD
TZTNP010GYS(31/36)
TO D-BOARD (19/36)
TO D-BOARD (30/36)
TO D-BOARD (32/36)
IC9556
C3ABMJ000002
MNX7320DV10
D4811650GF10
16M-SGRAM
DF
DF1
DF2
C9346 16V 0.1
C9350 16V 0.1
R9651 100
a
b
c
d
e
f
g
h
i
j
k
A
B
C
D
E
F
G
H
I
J
K
42
43
44
45
46
47
48

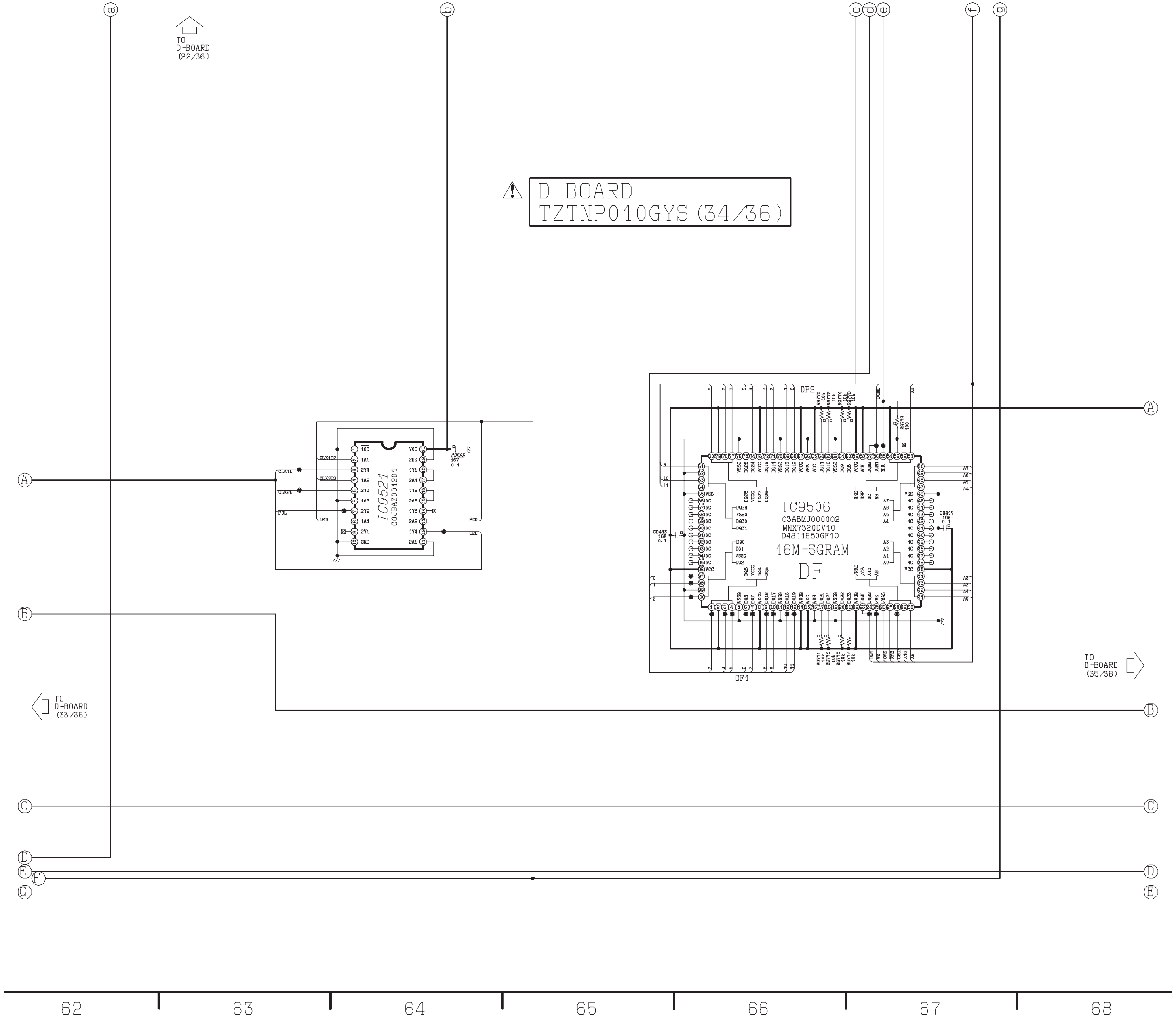
13.57. D-Board (32/36) Schematic Diagram


D-BOARD
TZTNP010GYS
(32/36)
TO
D-BOARD
(20/36)
TO
D-BOARD
(31/36)
TO
D-BOARD
(33/36)
TO
C6-BOARD
(C36)
D36
L-DOWN
IC9555
C0JBAZ001201
C9858
16V
0.1
R9653
150
R9654
0
C9374
16V
4.7
C9375
16V
0.1
L9025
ELKE103FA
TP1579
TP1580
TP1581
TP1582
TP1608
TP1609
TP1610
TP1611
a
b
c
d
e
f
g
A
B
C
D
E
F
G
H
49
50
51
52
53
54

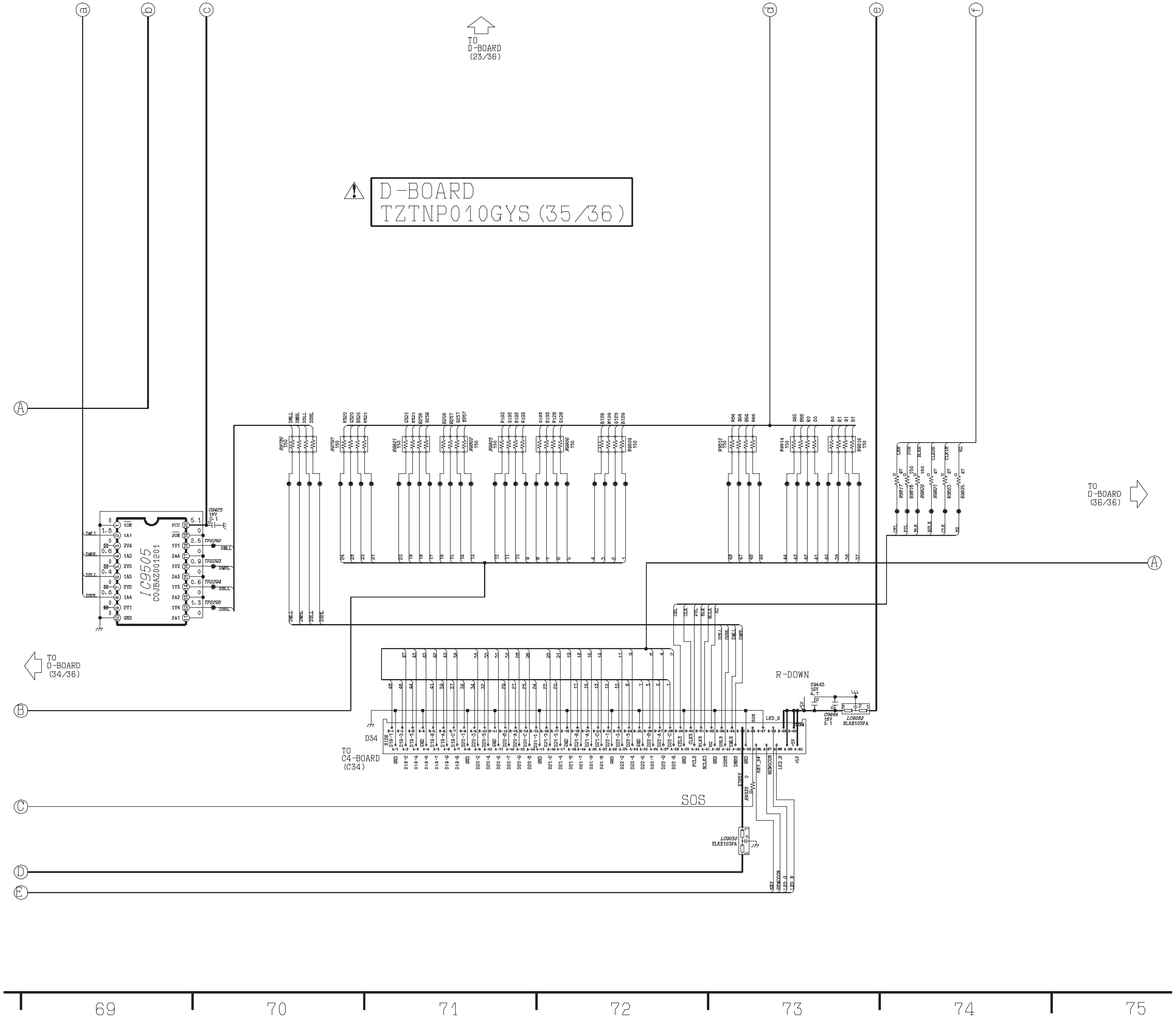
13.58. D-Board (33/36) Schematic Diagram


D-BOARD
TZTNP010GYS(33/36)
TO
D-BOARD
(21/36)
TO
D-BOARD
(32/36)
TO
D-BOARD
(34/36)
TO
C5-BOARD
(C35)
D35
M-DOWN
C9394
16V
4.7
C9395
16V
0.1
LC9029
ELKE103FA
R9704
R9706
R9708
R9710
R9712
R9714
R9716
R9718
R9720
R9722
R9724
R9725
R9727
R9729
R9731
R9301
R9302
R9304
R9305
150
47
R320 G320 B320 R321
G321 B321 R256 G256
B256 R257 G257 B257
R192 G192 B192 R193
G193 B193 R128 G128
B128 R129 G129 B129
R64 G64 B64 R65
G65 B65 R0 G0
B0 R1 G1 B1
HZ LEL PCL BLKL CLK2L CLK1L
HZ CEL PCL BLK NCLK CLK
CEL2 PCL2 NCLK2 CLK2
DSLM DSHM DMLM DMHM
DSL2 DML2 DSH2 DMH2
GND NC +5V TERM
a
b
c
d
e
A
B
C
D
E
F
G
H
55
56
57
58
59
60
61

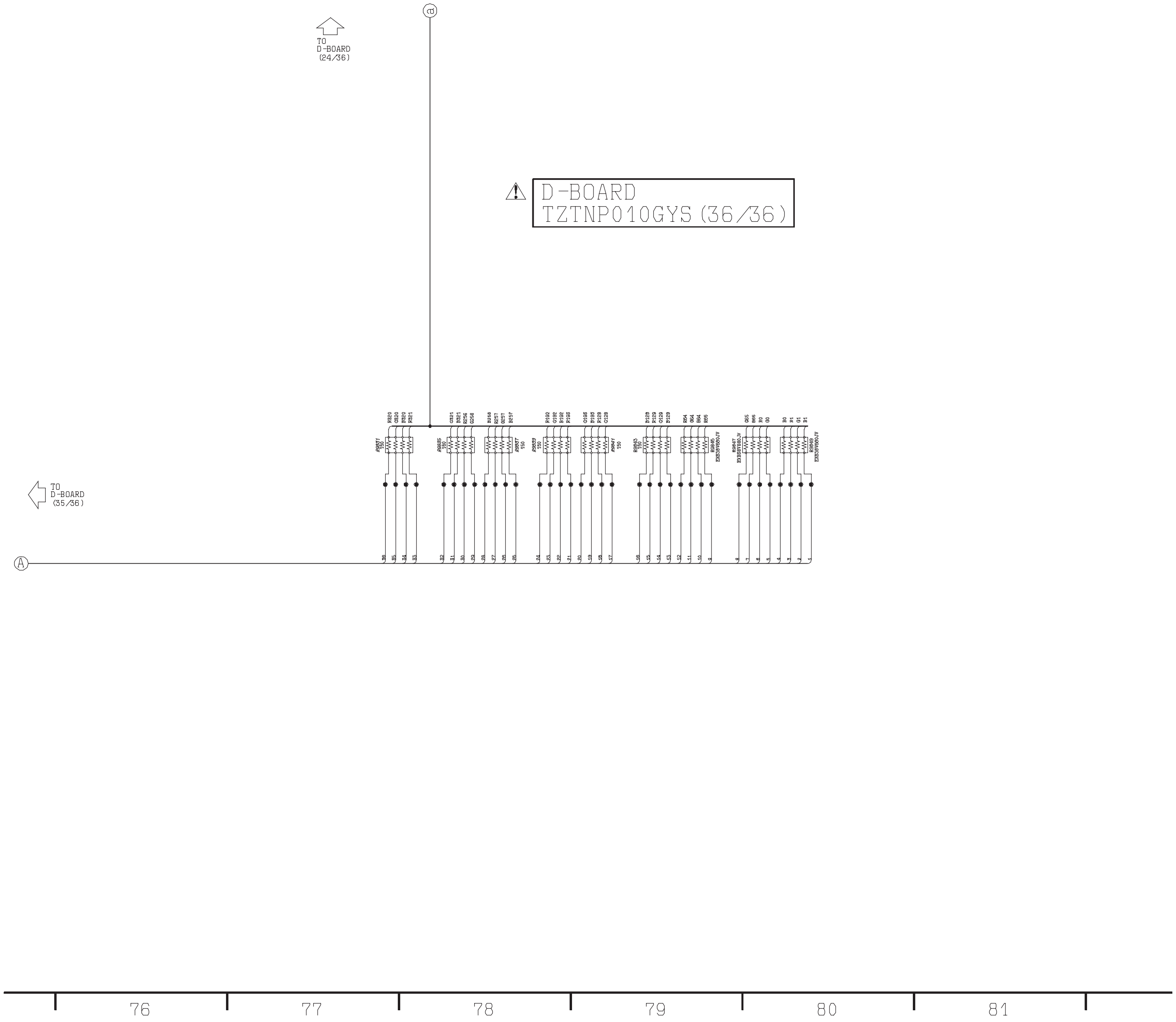
13.59. D-Board (34/36) Schematic Diagram


a
b
c
d
e
f
g
TO D-BOARD (22/36)
TO D-BOARD (33/36)
TO D-BOARD (35/36)
D-BOARD
TZTNP010GYS(34/36)
IC9521
C0JBAZ001201
CLK1L
CLK2L
PCL
CLK1O2
CLK2O2
LED
PCO
LEL
C9525
16V
0.1
1OE
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
VCC
2OE
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
IC9506
C3ABMJ000002
MNX7320DV10
D4811650GF10
16M-SGRAM
DF
DF1
DF2
C9413
16V
0.1
C9417
16V
0.1
R9776
100
A
B
C
D
E
F
G
62
63
64
65
66
67
68

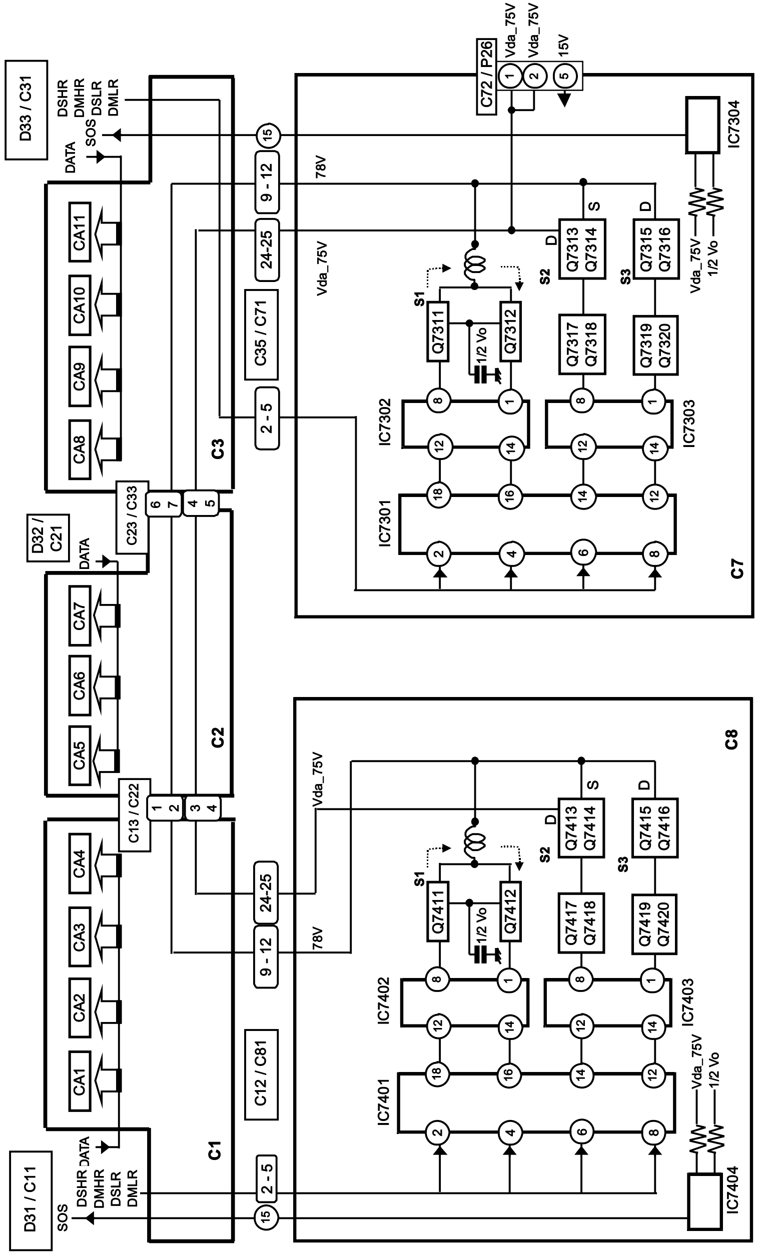
13.60. D-Board (35/36) Schematic Diagram

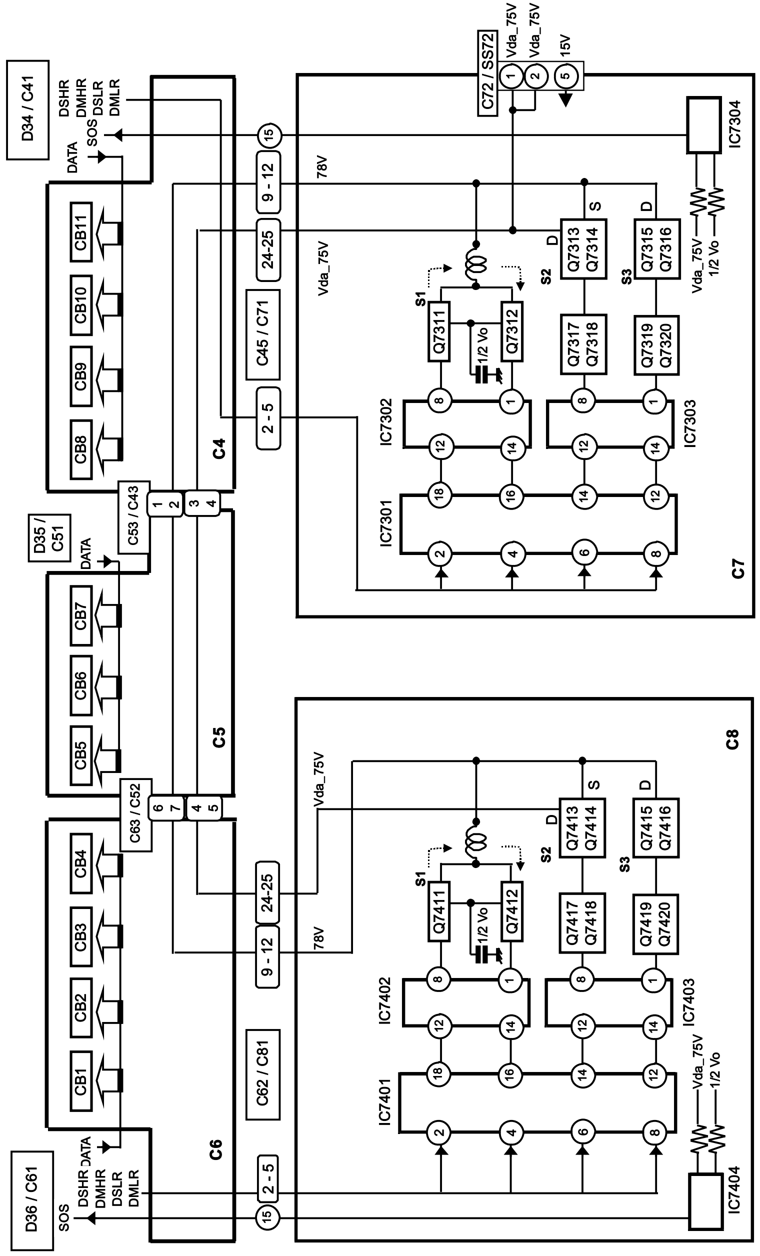

a
b
c
d
e
f
TO
D-BOARD
(23/36)
D-BOARD
TZTNP010GYS(35/36)
TO
D-BOARD
(36/36)
IC9505
C0JBAZ001201
C9425
TO
D-BOARD
(34/36)
R-DOWN
C9443
C9444
LC9082
ELKE103FA
D34
TO
C4-BOARD
(C34)
SOS
LC9030
ELKE103FA
A
B
C
D
E
69
70
71
72
73
74
75

13.61. D-Board (36/36) Schematic Diagram

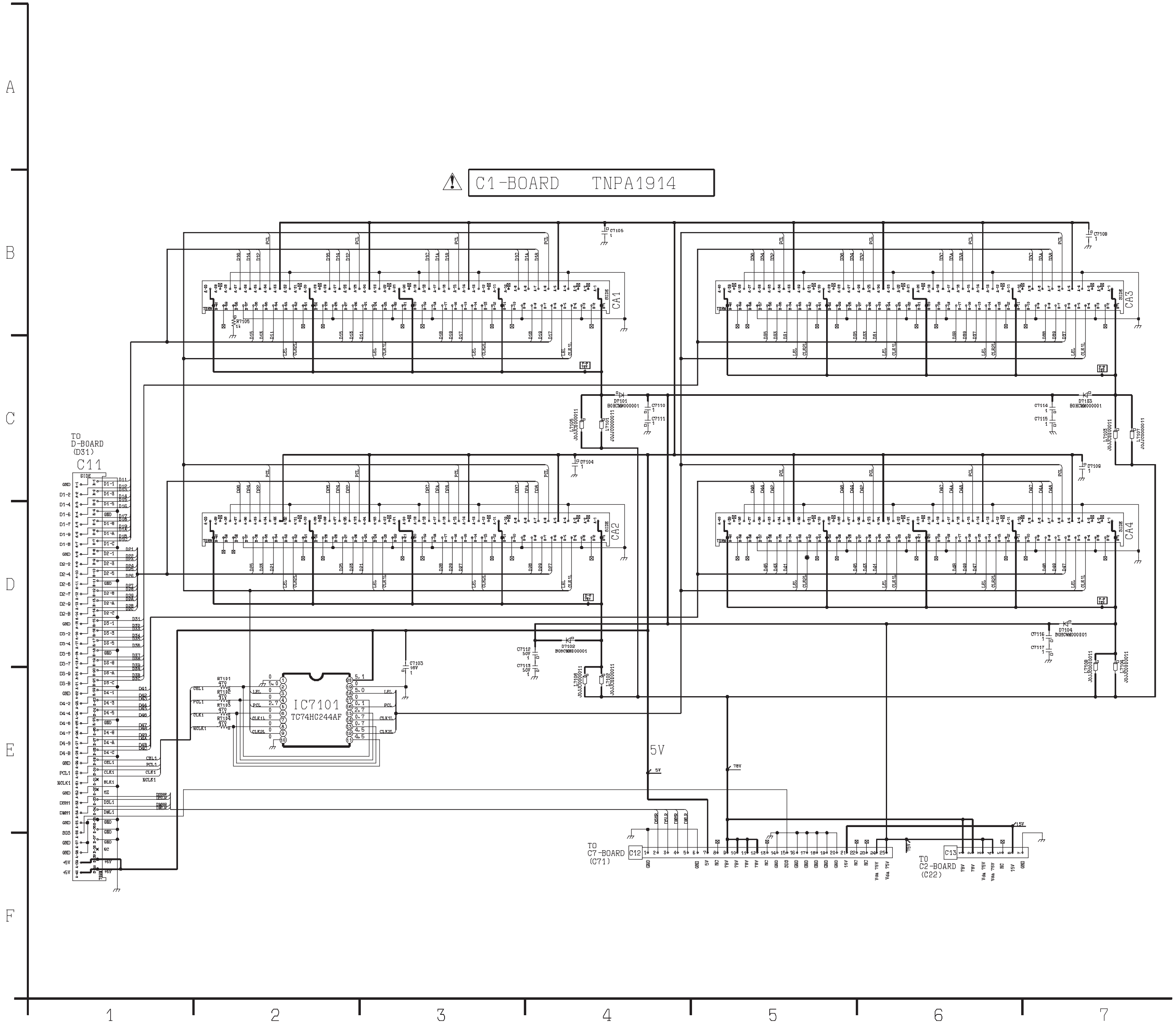

TO
D-BOARD
(24/36)
a
TO
D-BOARD
(35/36)
A
D-BOARD
TZTNP010GYS (36/36)
R320
G320
B320
R321
R9B31
150
G321
B321
R256
G256
R9B35
150
B256
R257
G257
B257
R9B37
150
R192
G192
B192
R193
R9B39
150
G193
B193
R128
G128
R9B41
150
B128
R129
G129
B129
R9B43
150
R64
G64
B64
R65
R9B45
EXB3BV680JV
G65
B65
R0
G0
R9B47
EXB3BV680JV
B0
R1
G1
B1
R9B49
EXB3BV680JV
76
77
78
79
80
81

13.62. C1, C2, C3, C4, C5, C6, C7 and C8 Board Block Diagram

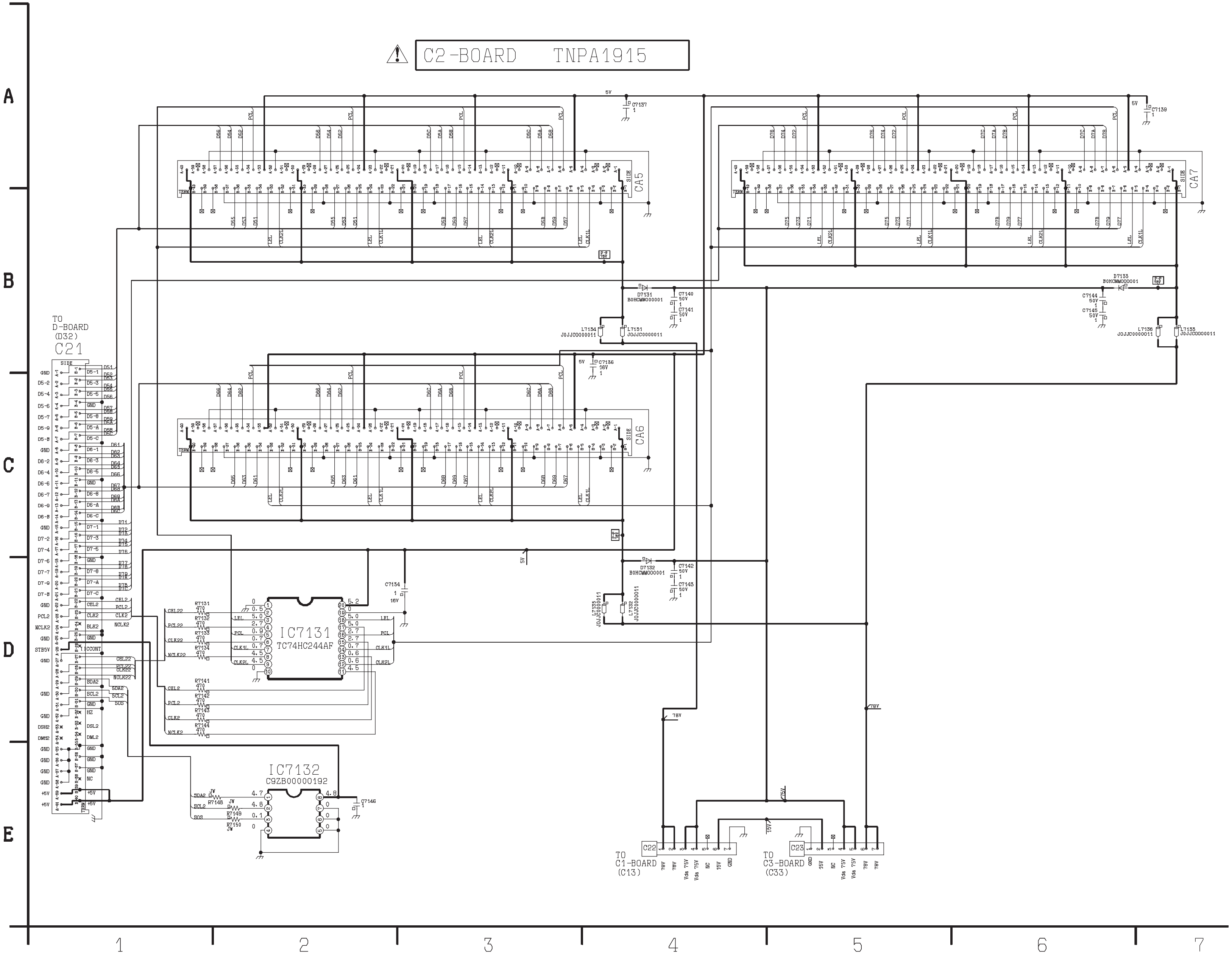

D33 / C31
DATA
SOS
DSHR
DMHR
DSLR
DMLR
CA11
CA10
CA9
CA8
C3
C23 / C33
6
7
4
5
D32 / C21
CA7
CA6
CA5
C2
C13 / C22
1
2
3
4
CA4
CA3
CA2
CA1
C1
D31 / C11
15
9 - 12
24-25
C35 / C71
2 - 5
C72 / P26
1 Vda_75V
2 Vda_75V
5 15V
78V
Vda_75V
S1
S2
S3
D
S
Q7311
Q7312
1/2 Vo
Q7313
Q7314
Q7315
Q7316
Q7317
Q7318
Q7319
Q7320
IC7301
IC7302
IC7303
IC7304
Vda_75V
1/2 Vo
C7
C12 / C81
Q7411
Q7412
Q7413
Q7414
Q7415
Q7416
Q7417
Q7418
Q7419
Q7420
IC7401
IC7402
IC7403
IC7404
C8


D34 / C41
DATA
SOS
DSHR
DMHR
DSLR
DMLR
CB11
CB10
CB9
CB8
C4
C53 / C43
1
2
3
4
D35 / C51
CB7
CB6
CB5
C5
C63 / C52
6
7
4
5
CB4
CB3
CB2
CB1
C6
D36 / C61
15
9 - 12
24-25
C45 / C71
2 - 5
C72 / SS72
1 Vda_75V
2 Vda_75V
5 15V
78V
Vda_75V
S1
S2
S3
D
S
Q7311
Q7312
1/2 Vo
Q7313
Q7314
Q7315
Q7316
Q7317
Q7318
Q7319
Q7320
IC7301
IC7302
IC7303
IC7304
C7
C62 / C81
Q7411
Q7412
Q7413
Q7414
Q7415
Q7416
Q7417
Q7418
Q7419
Q7420
IC7401
IC7402
IC7403
IC7404
C8

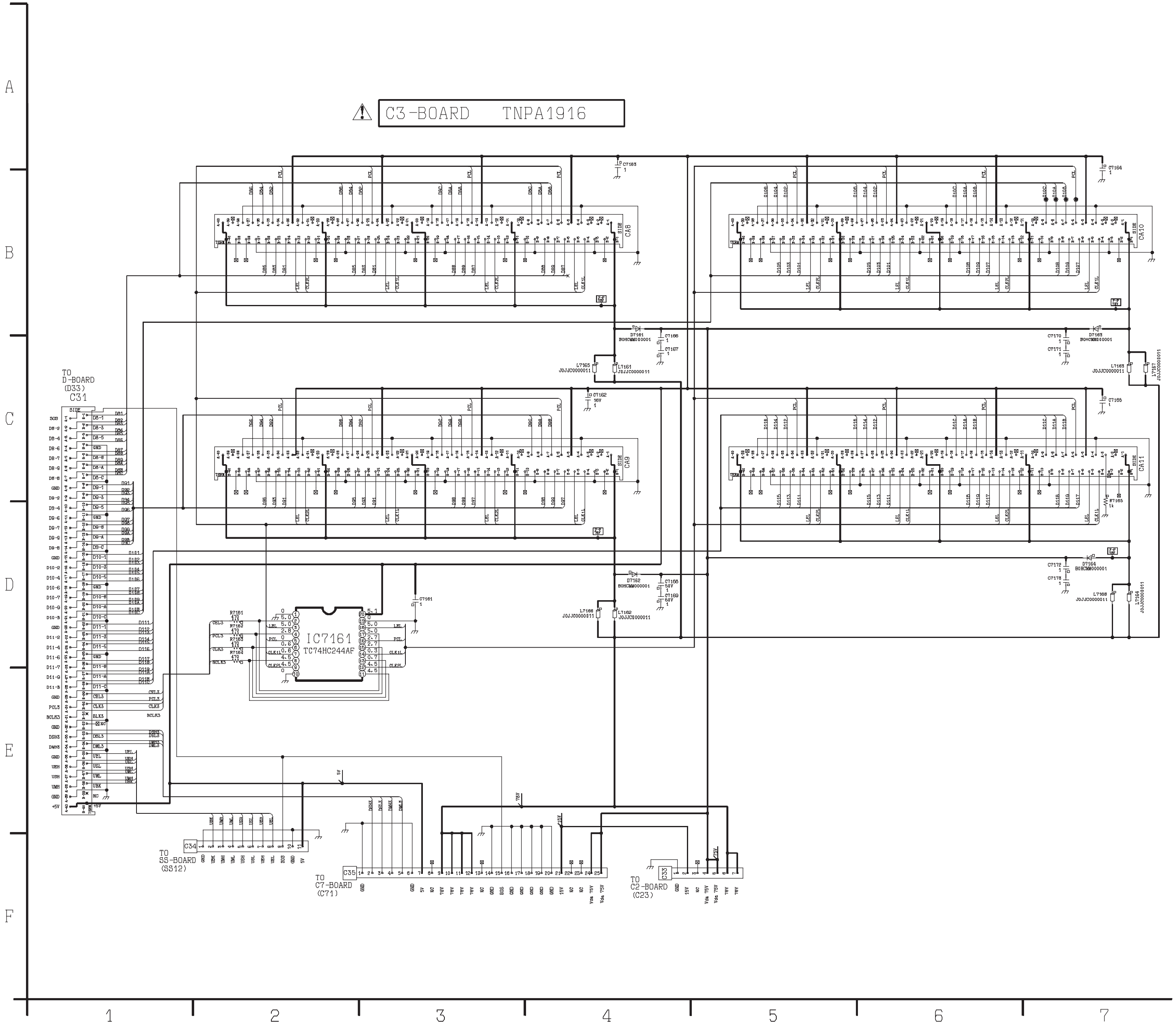
13.63. C1-Board Schematic Diagram


C1-BOARD TNPA1914
CA1
CA2
CA3
CA4
IC7101
TC74HC244AF
TO
D-BOARD
(D31)
C11
TO
C7-BOARD
(C71)
C12
TO
C2-BOARD
(C22)
C13
5V
A
B
C
D
E
F
1
2
3
4
5
6
7

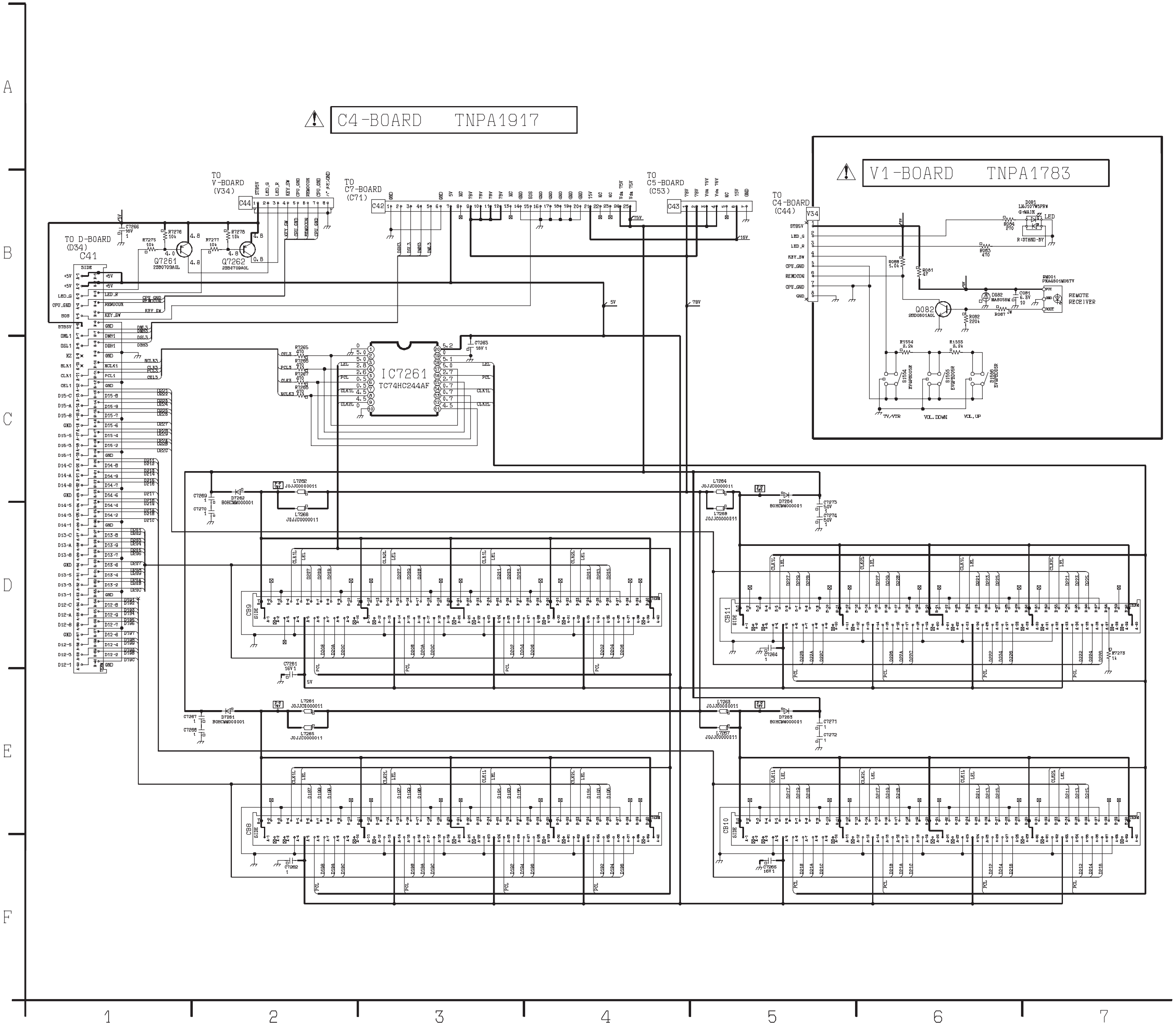
13.64. C2-Board Schematic Diagram


C2-BOARD TNPA1915
CA5
CA6
CA7
TO D-BOARD (D32) C21
IC7131
TC74HC244AF
IC7132
C9ZB00000192
TO C1-BOARD (C13) C22
TO C3-BOARD (C33) C23
A
B
C
D
E
1
2
3
4
5
6
7

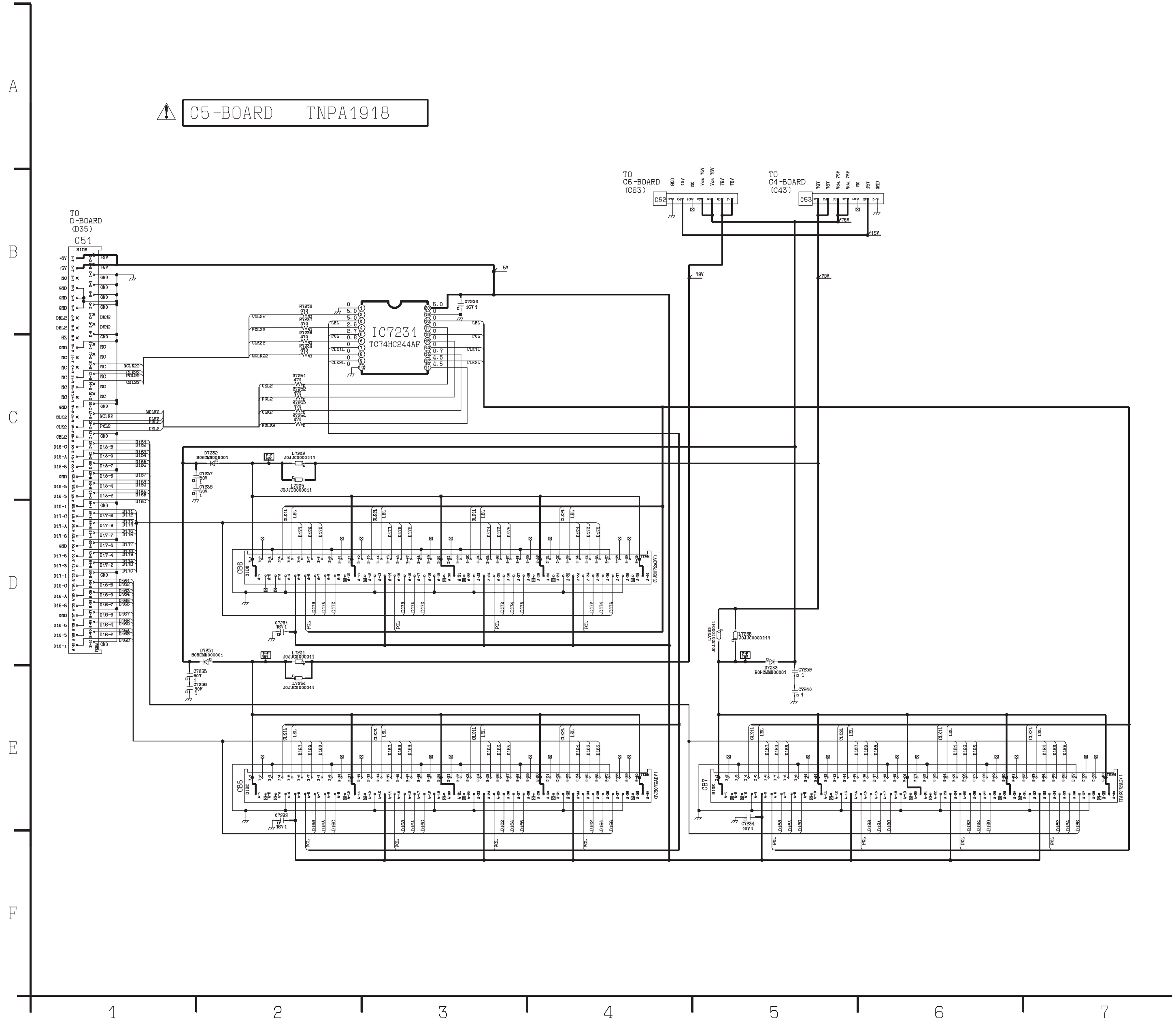
13.65. C3-Board Schematic Diagram


C3-BOARD TNPA1916
CA8
CA9
CA10
CA11
IC7161
TC74HC244AF
TO D-BOARD (D33)
C31
TO SS-BOARD (SS12)
C34
TO C7-BOARD (C71)
C35
TO C2-BOARD (C23)
C33
A
B
C
D
E
F
1
2
3
4
5
6
7

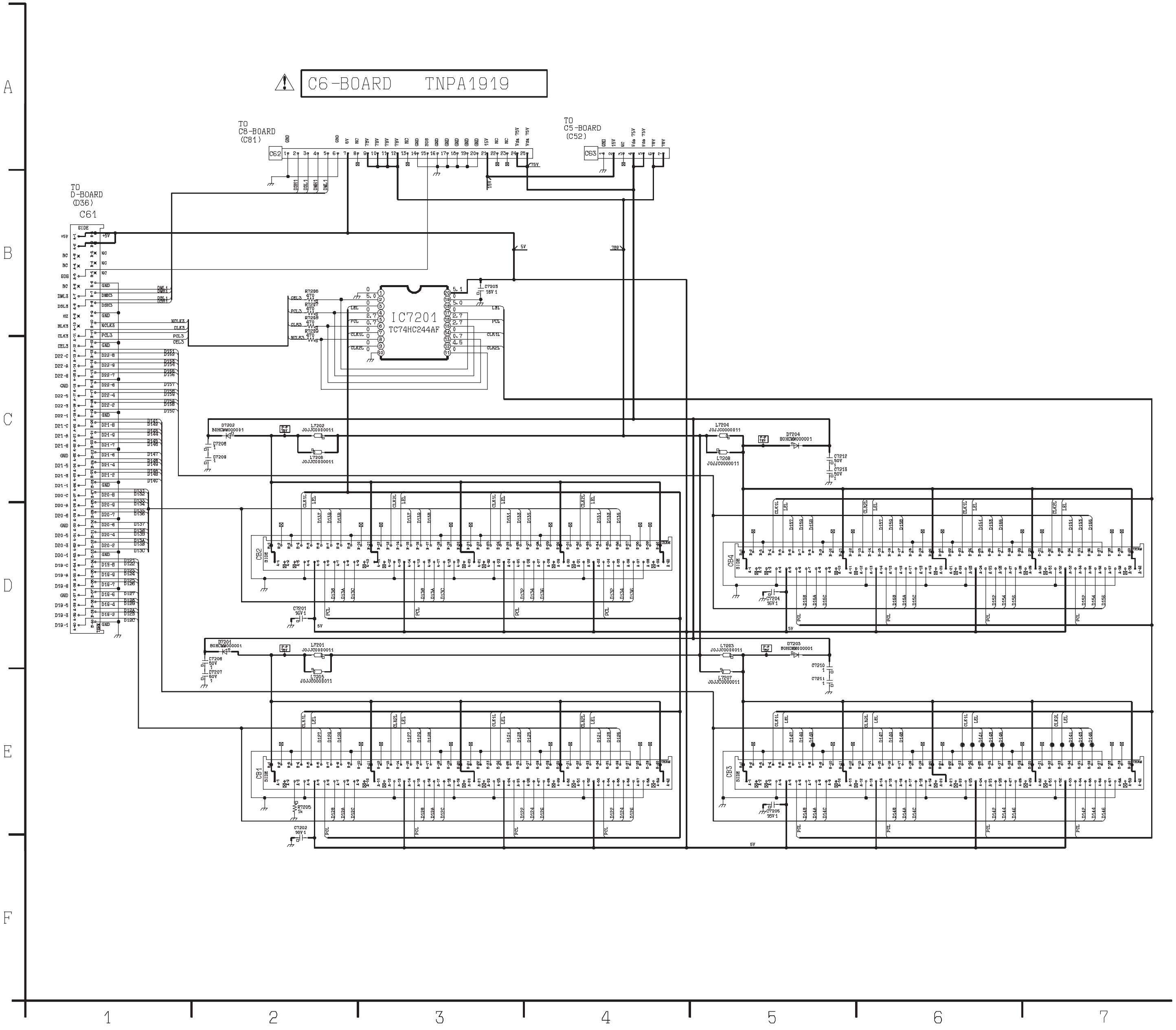
13.66. C4-Board and V1-Board Schematic Diagram


C4-BOARD TNPA1917
V1-BOARD TNPA1783
TO D-BOARD (D34)
C41
TO V-BOARD (V34)
C44
TO C7-BOARD (C71)
C42
TO C5-BOARD (C53)
C43
TO C4-BOARD (C44)
V34
Q7261
Q7262
IC7261
TC74HC244AF
Q082
REMOTE RECEIVER
LED
R:STAND-BY
TV/VTR
VOL.DOWN
VOL.UP
CB8
CB9
CB10
CB11
A
B
C
D
E
F
1
2
3
4
5
6
7

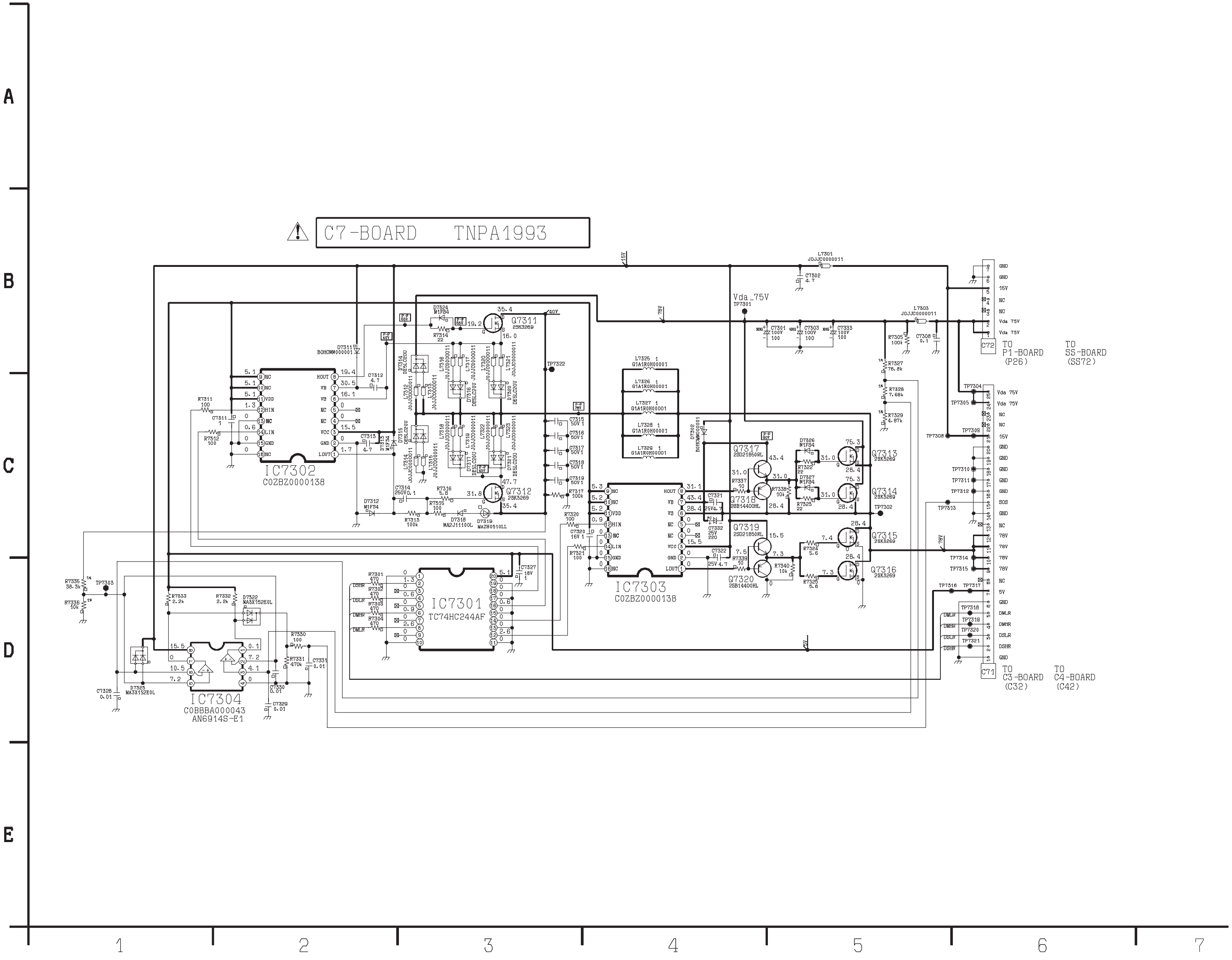
13.67. C5-Board Schematic Diagram


C5-BOARD TNPA1918
TO D-BOARD (D35)
C51
TO C6-BOARD (C63)
C52
TO C4-BOARD (C43)
C53
IC7231
TC74HC244AF
CB5
CB6
CB7
5V
A
B
C
D
E
F
1
2
3
4
5
6
7

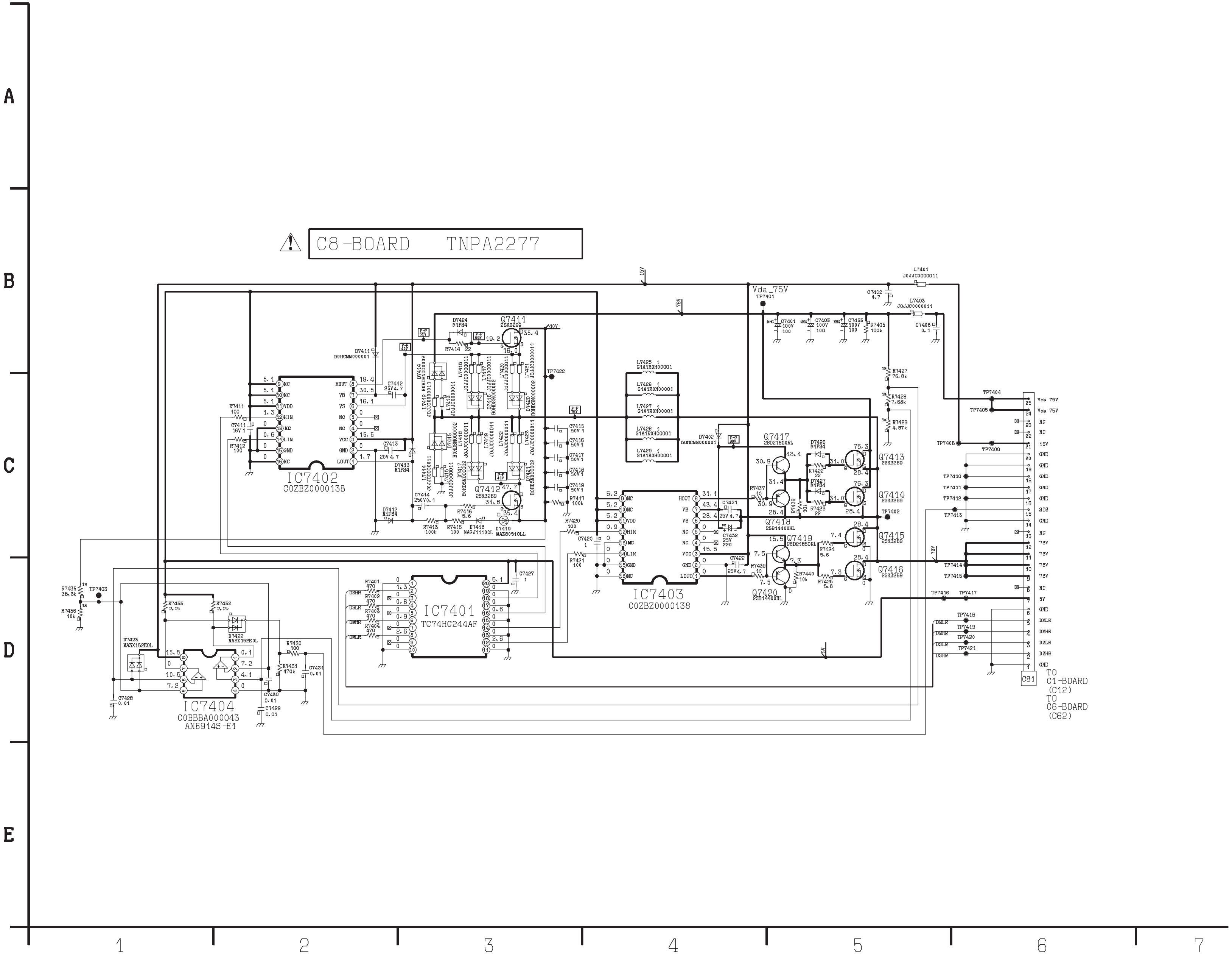
13.68. C6-Board Schematic Diagram


C6-BOARD TNPA1919
TO C8-BOARD (C81)
C62
TO C5-BOARD (C52)
C63
TO D-BOARD (D36)
C61
IC7201
TC74HC244AF
D7202
D7201
D7204
D7203
L7201
L7202
L7203
L7204
L7205
L7206
L7207
L7208
C7201
C7202
C7203
C7204
C7205
C7206
C7207
C7208
C7209
C7210
C7211
C7212
C7213
R7205
CB1
CB2
CB3
CB4
5V
A
B
C
D
E
F
1
2
3
4
5
6
7

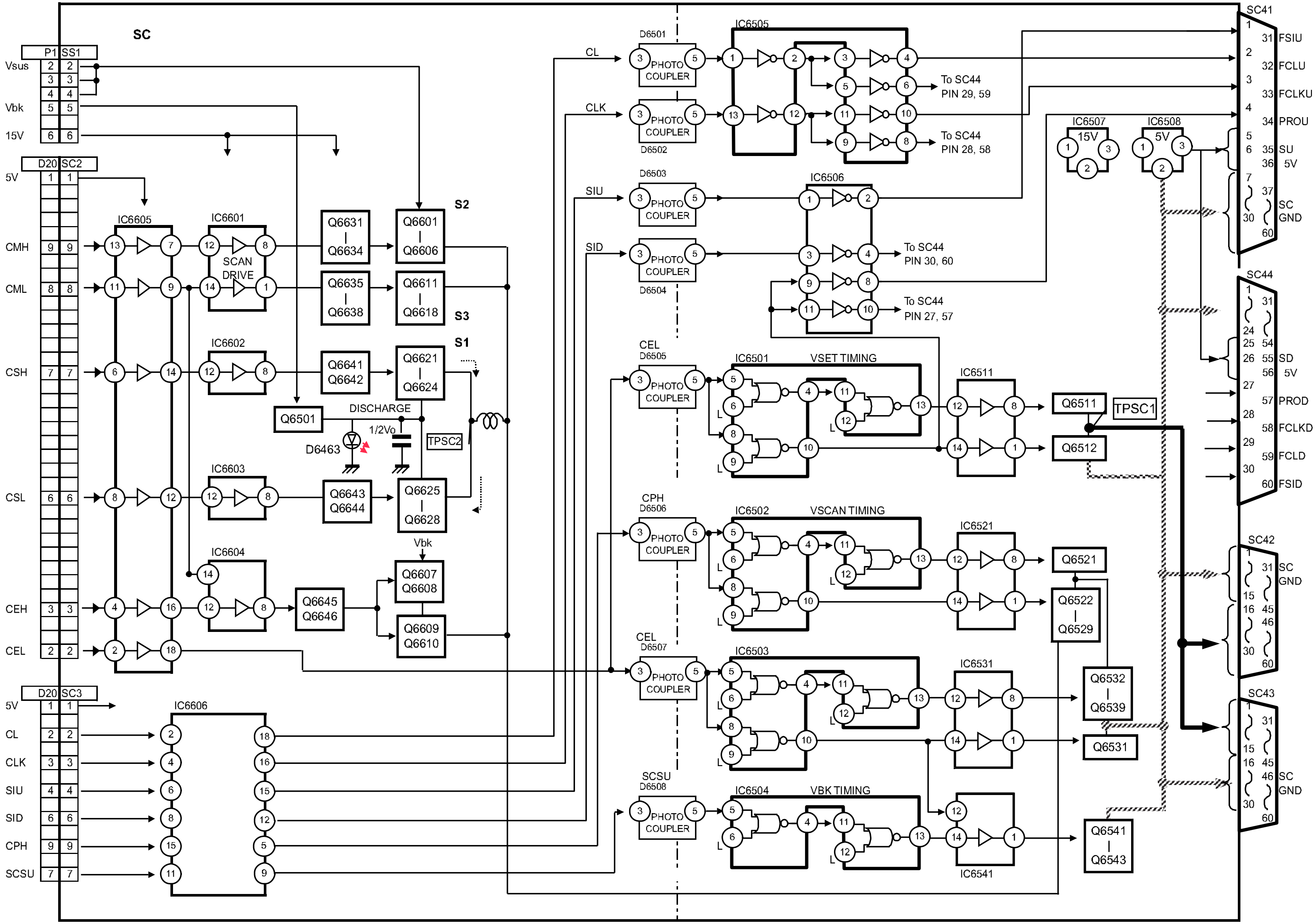
13.69. C7-Board Schematic Diagram


C7-BOARD TNPA1993
A
B
C
D
E
1
2
3
4
5
6
7
IC7302
C0ZBZ0000138
IC7303
C0ZBZ0000138
IC7301
TC74HC244AF
IC7304
C0BBBA000043
AN6914S-E1
Q7311
2SK3269
Q7312
2SK3269
Q7313
2SK3269
Q7314
2SK3269
Q7315
2SK3269
Q7316
2SK3269
Q7317
2SD2185ORL
Q7318
2SB1440OHL
Q7319
2SD2185ORL
Q7320
2SB1440OHL
Vda_75V
TP7301
L7301
J0JJC0000011
L7303
J0JJC0000011
L7325
G1A1R0H00001
L7326
G1A1R0H00001
L7327
G1A1R0H00001
L7328
G1A1R0H00001
L7329
G1A1R0H00001
D7311
B0HCMM000001
D7302
B0HCMM000001
D7322
MA3X152E0L
D7323
MA3X152E0L
D7318
MA2J11100L
D7319
MAZ80510LL
TO P1-BOARD (P26)
TO SS-BOARD (SS72)
TO C3-BOARD (C32)
TO C4-BOARD (C42)
C72
C71
GND
15V
NC
Vda 75V
SOS
78V
5V
DMLR
DMHR
DSLR
DSHR
TP7322
TP7302
TP7303
TP7313
15V
78V
40V

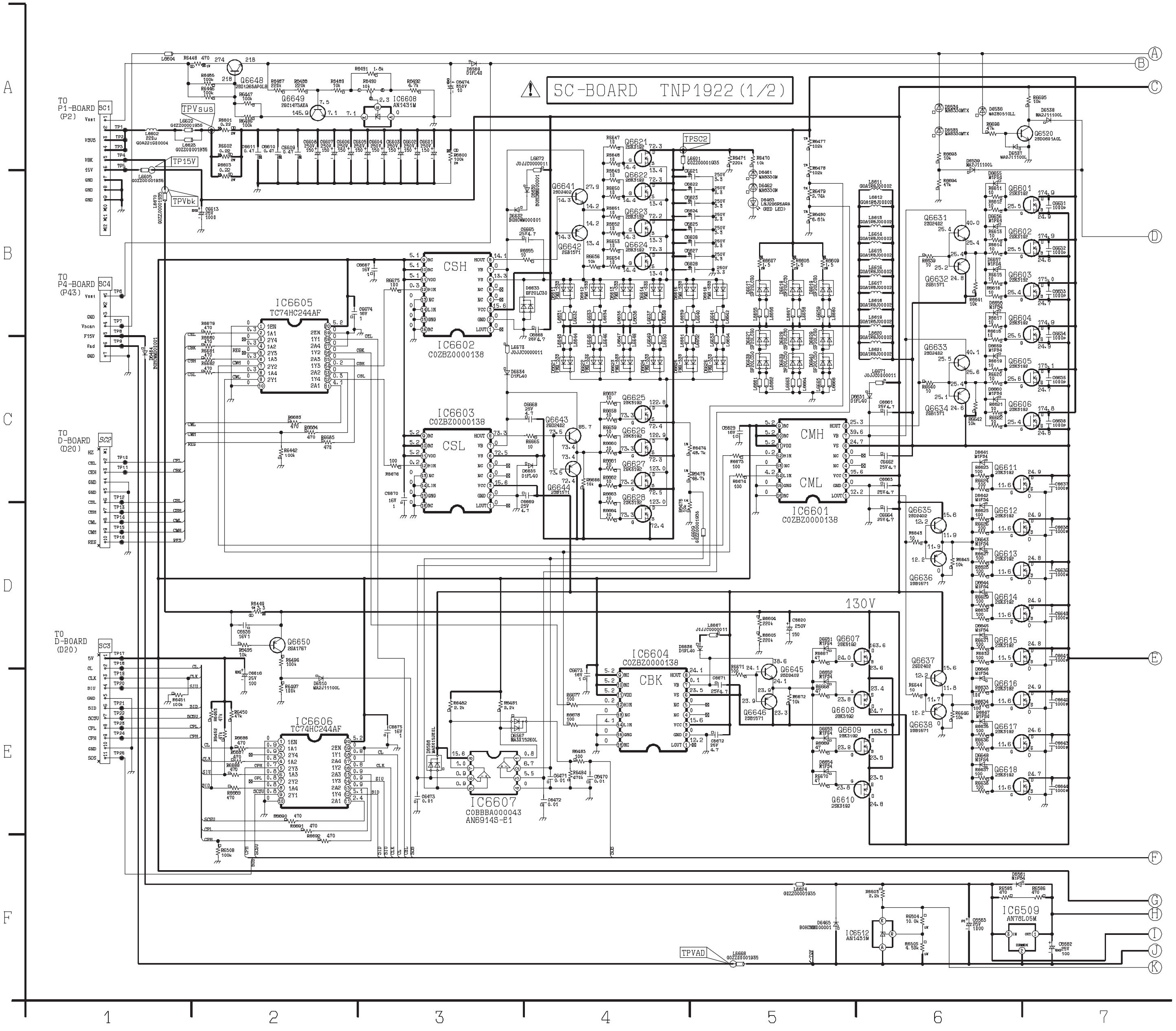
13.70. C8-Board Schematic Diagram


C8-BOARD TNPA2277
IC7401
TC74HC244AF
IC7402
C0ZBZ0000138
IC7403
C0ZBZ0000138
IC7404
C0BBBA000043
AN6914S-E1
Q7411
Q7412
Q7413
Q7414
Q7415
Q7416
Q7417
Q7418
Q7419
Q7420
Vda_75V
15V
75V
5V
CB1
TO
C1-BOARD
(C12)
TO
C6-BOARD
(C62)
A
B
C
D
E
1
2
3
4
5
6
7

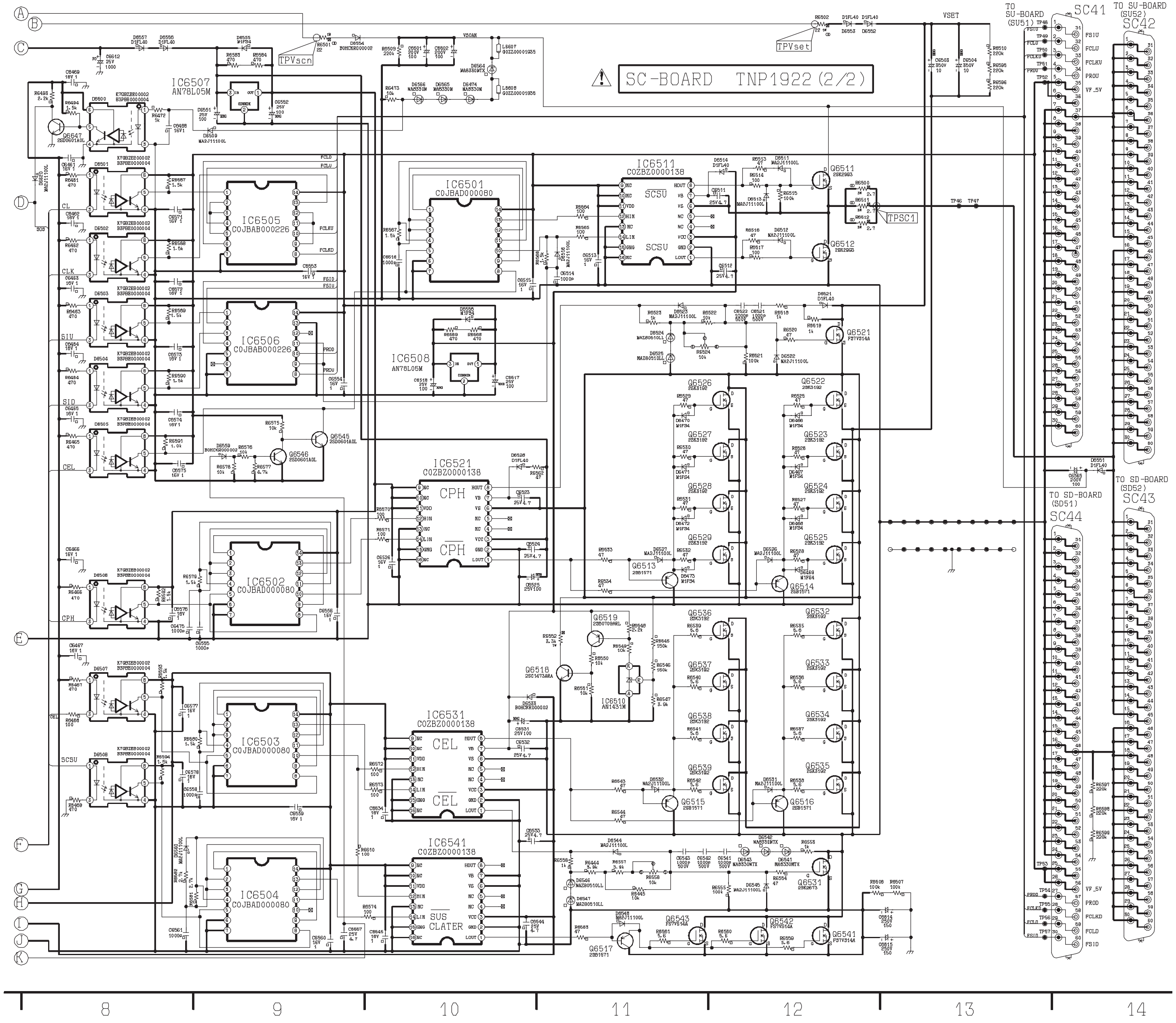
13.71. SC-Board Block Diagram


SC
P1
SS1
Vsus
Vbk
15V
D20
SC2
5V
CMH
CML
CSH
CSL
CEH
CEL
SC3
CL
CLK
SIU
SID
CPH
SCSU
IC6605
IC6601
SCAN DRIVE
IC6602
IC6603
IC6604
IC6606
Q6631 | Q6634
Q6635 | Q6638
Q6641 Q6642
Q6643 Q6644
Q6645 Q6646
Q6601 | Q6606
Q6611 | Q6618
Q6621 | Q6624
Q6625 | Q6628
Q6607 Q6608
Q6609 Q6610
Q6501
S2
S3
S1
DISCHARGE
1/2Vo
TPSC2
D6463
D6501
D6502
D6503
D6504
D6505
D6506
D6507
D6508
PHOTO COUPLER
CEL
CPH
SCSU
IC6505
IC6506
To SC44 PIN 29, 59
To SC44 PIN 28, 58
To SC44 PIN 30, 60
To SC44 PIN 27, 57
IC6507
15V
IC6508
IC6501
VSET TIMING
IC6502
VSCAN TIMING
IC6503
IC6504
VBK TIMING
IC6511
IC6521
IC6531
IC6541
Q6511
Q6512
TPSC1
Q6521
Q6522 | Q6529
Q6532 | Q6539
Q6531
Q6541 | Q6543
SC41
FSIU
FCLU
FCLKU
PROU
SU
SC GND
SC44
SD
PROD
FCLKD
FCLD
FSID
SC42
SC43

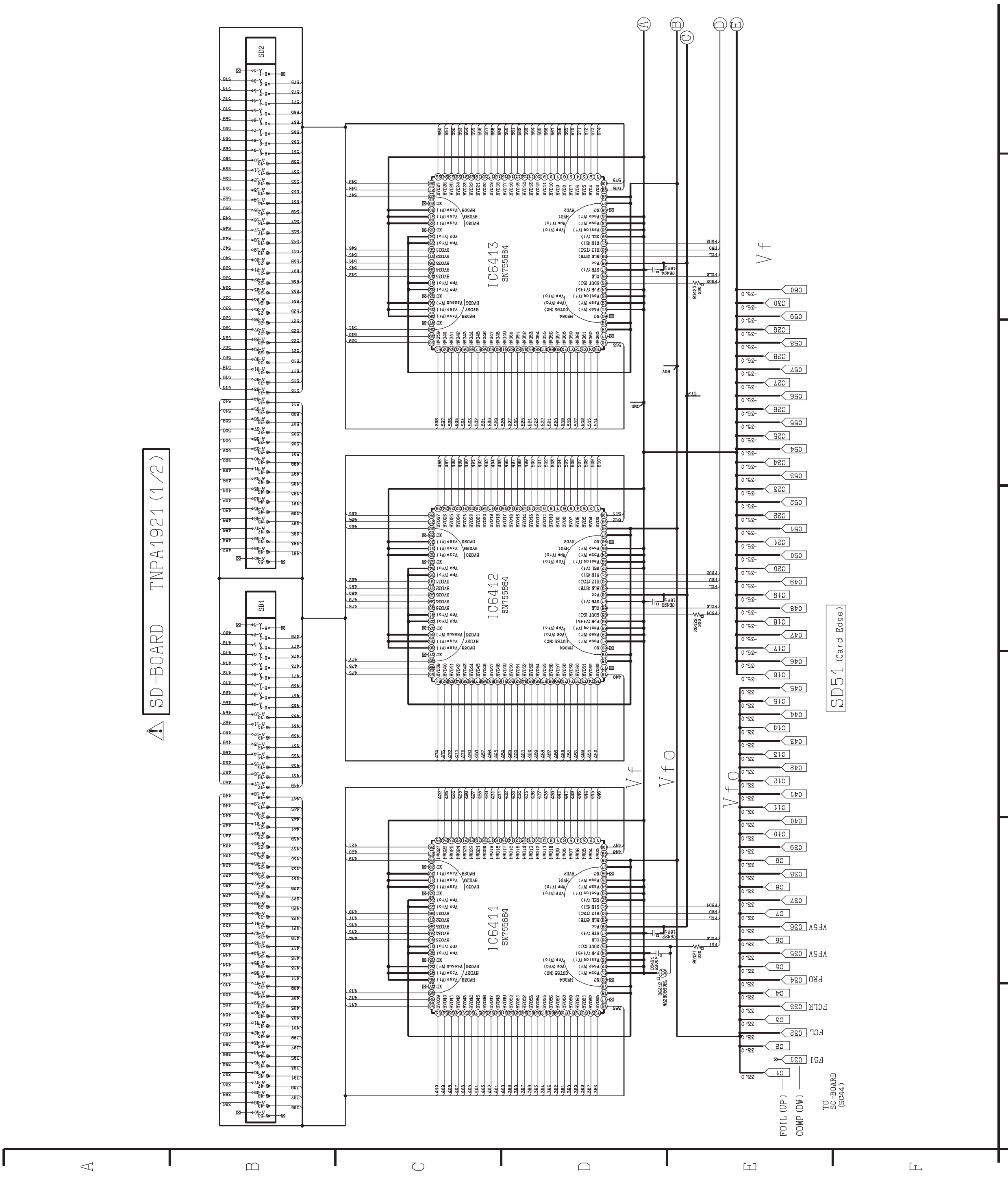
13.72. SC-Board (1/2) Schematic Diagram


SC-BOARD TNP1922(1/2)
TO P1-BOARD (P2)
SC1
TO P4-BOARD (P43)
SC4
TO D-BOARD (D20)
SC2
TO D-BOARD (D20)
SC3
TPVsus
TP15V
TPVbk
TPSC2
TPVAD
IC6605 TC74HC244AF
IC6606 TC74HC244AF
IC6602 C0ZBZ0000138
CSH
IC6603 C0ZBZ0000138
CSL
IC6601 C0ZBZ0000138
CMH
CML
IC6604 C0ZBZ0000138
CBK
IC6607 C0BBBA000043 AN6914S-E1
IC6608 AN1431M
IC6509 AN78L05M
IC6512 AN1431M
Q6648
Q6649
Q6650
Q6641
Q6642
Q6643
Q6644
Q6621
Q6622
Q6623
Q6624
Q6625
Q6626
Q6627
Q6628
Q6631
Q6632
Q6633
Q6634
Q6635
Q6636
Q6637
Q6638
Q6601
Q6602
Q6603
Q6604
Q6605
Q6606
Q6611
Q6612
Q6613
Q6614
Q6615
Q6616
Q6617
Q6618
Q6607
Q6608
Q6609
Q6610
Q6645
Q6646
Q6520
130V
A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7

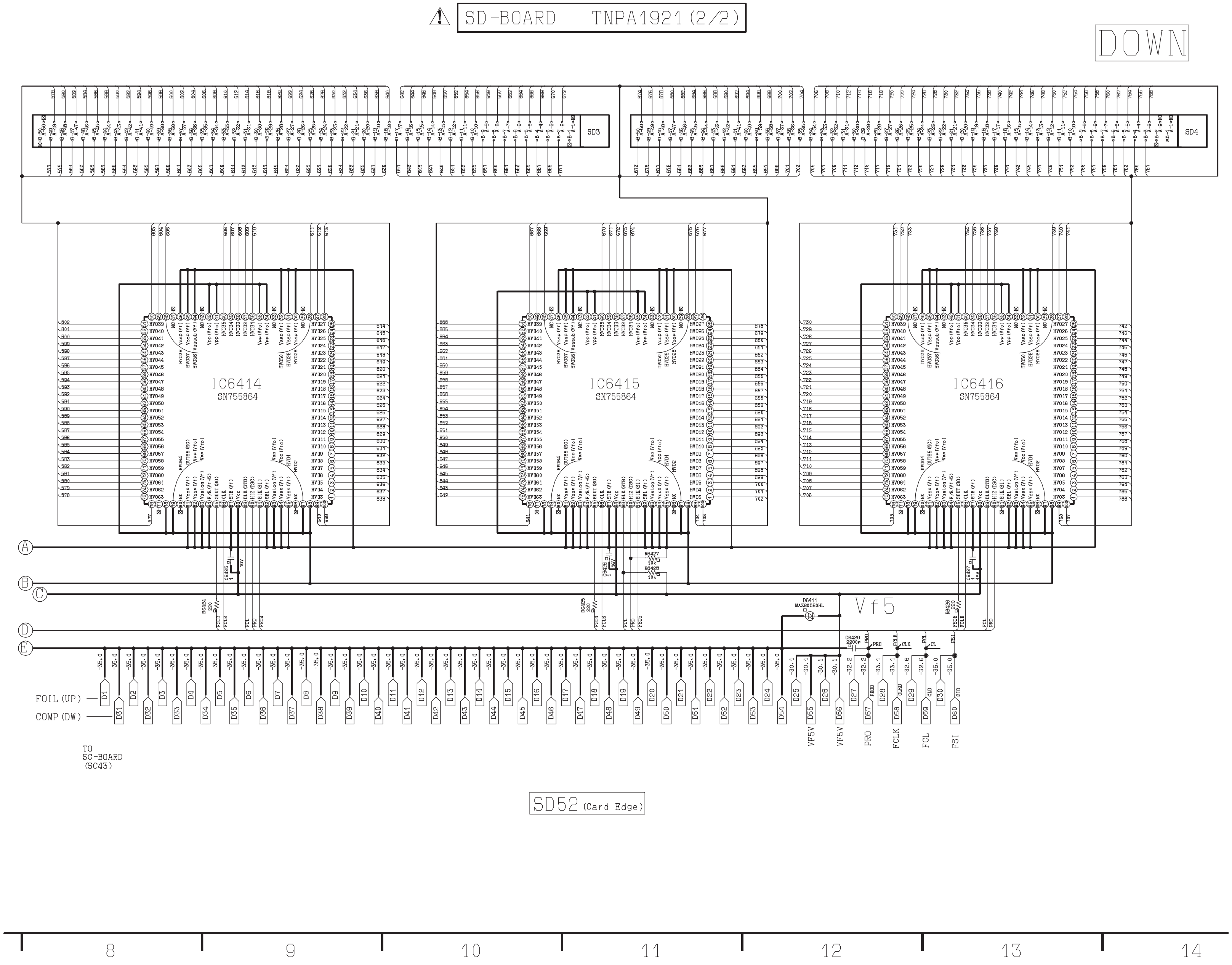
13.73. SC-Board (2/2) Schematic Diagram


SC-BOARD TNP1922 (2/2)
TO SU-BOARD (SU51) SC41
TO SU-BOARD (SU52) SC42
TO SD-BOARD (SD51) SC44
TO SD-BOARD (SD52) SC43
IC6501 C0JBAD000080
IC6502 C0JBAD000080
IC6503 C0JBAD000080
IC6504 C0JBAD000080
IC6505 C0JBAB000226
IC6506 C0JBAB000226
IC6507 AN78L05M
IC6508 AN78L05M
IC6510 AN1431M
IC6511 C0ZBZ0000138 SCSU
IC6521 C0ZBZ0000138 CPH
IC6531 C0ZBZ0000138 CEL
IC6541 C0ZBZ0000138 SUS CLATER
Q6511
Q6512
Q6513
Q6514
Q6515
Q6516
Q6517
Q6518
Q6519
Q6521
Q6522
Q6523
Q6524
Q6525
Q6526
Q6527
Q6528
Q6529
Q6531
Q6532
Q6533
Q6534
Q6535
Q6536
Q6537
Q6538
Q6539
Q6541
Q6542
Q6543
Q6545
Q6546
Q6547
TPVscn
TPVset
TPSC1
VSCAN
VSET
CL
CLK
SIU
SID
CEL
CPH
SEL
SCSU
FSIU
FCLU
FCLKU
PROU
VF_5V
PROD
FCLKD
FCLD
FSID
A
B
C
D
E
F
G
H
I
J
K
8
9
10
11
12
13
14

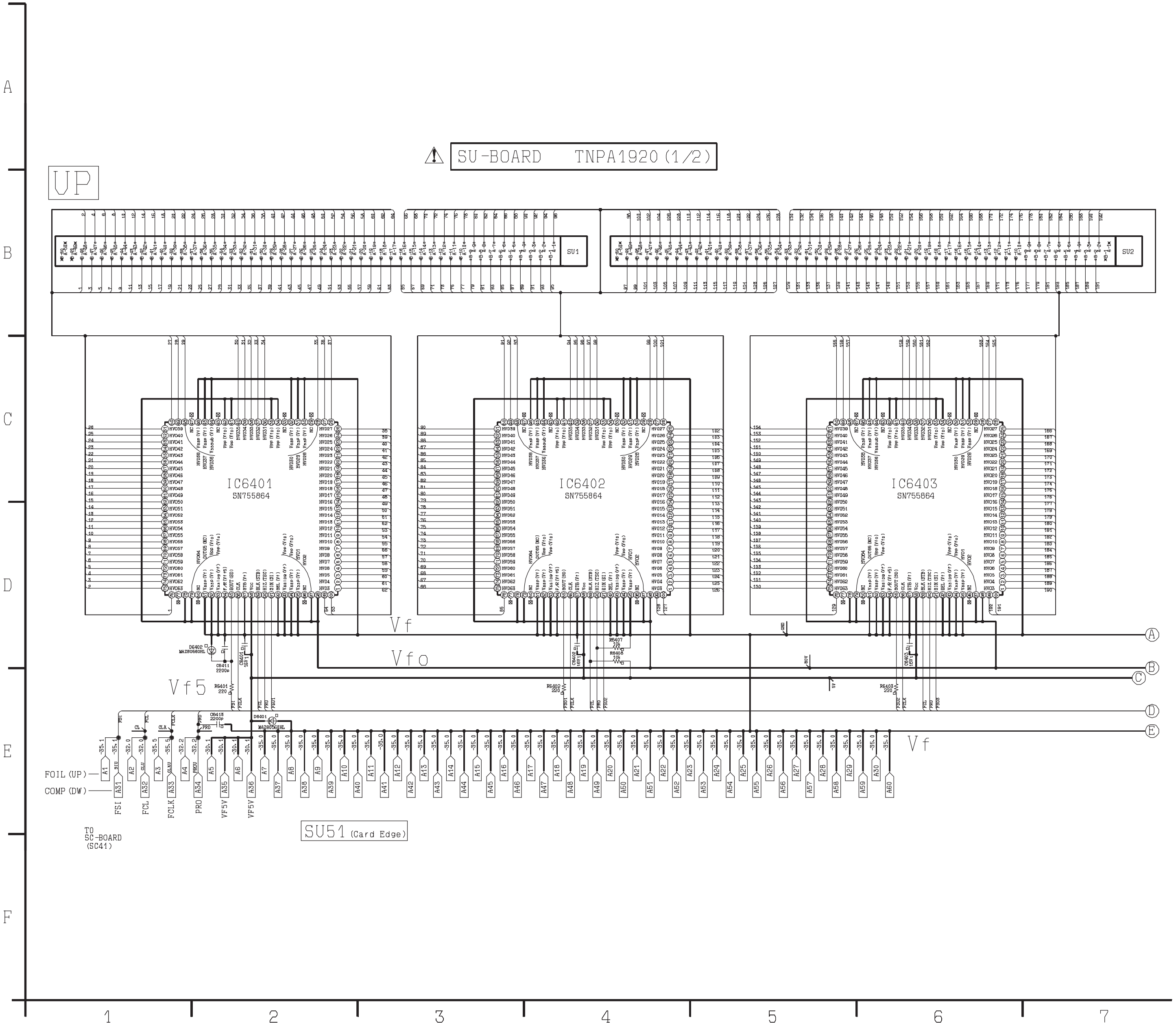
13.74. SD-Board (1/2) Schematic Diagram


SD-BOARD TNPA1921 (1/2)
SD1
SD2
IC6411
SN755864
IC6412
SN755864
IC6413
SN755864
SD51 (Card Edge)
Vf
Vfo
FOIL (UP)
COMP (DW)
TO SC-BOARD (SC44)
FSI
FCL
FCLK
PRO
VFSV
A
B
C
D
E
F
1
2
3
4
5
6
7

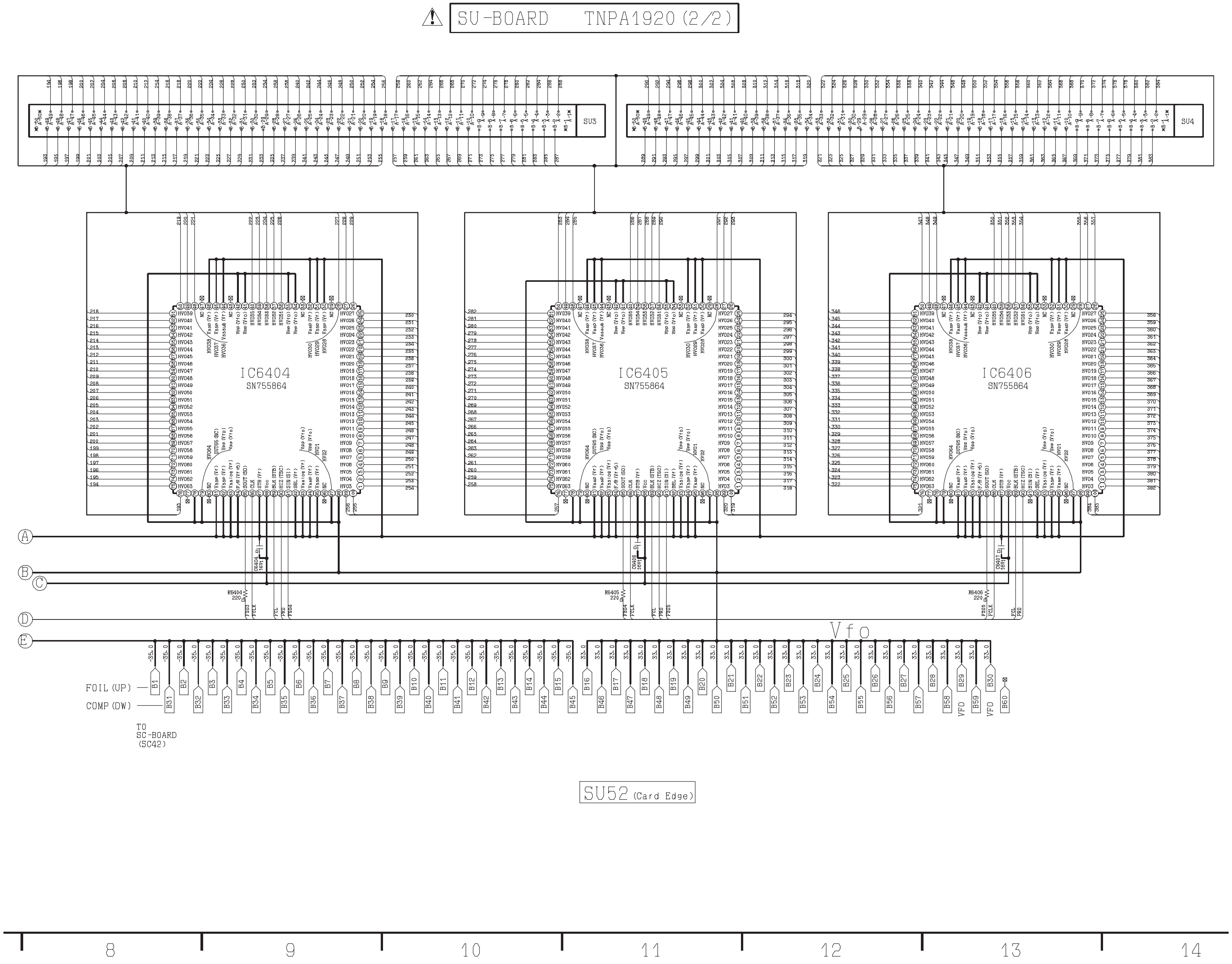
13.75. SD-Board (2/2) Schematic Diagram


SD-BOARD TNPA1921(2/2)
DOWN
SD3
SD4
IC6414
SN755864
IC6415
SN755864
IC6416
SN755864
D6411
MAZ80560ML
Vf5
A
B
C
D
E
FOIL (UP)
COMP (DW)
TO
SC-BOARD
(SC43)
VF5V
VF5V
PRO
FCLK
FCL
FSI
SD52 (Card Edge)
8
9
10
11
12
13
14

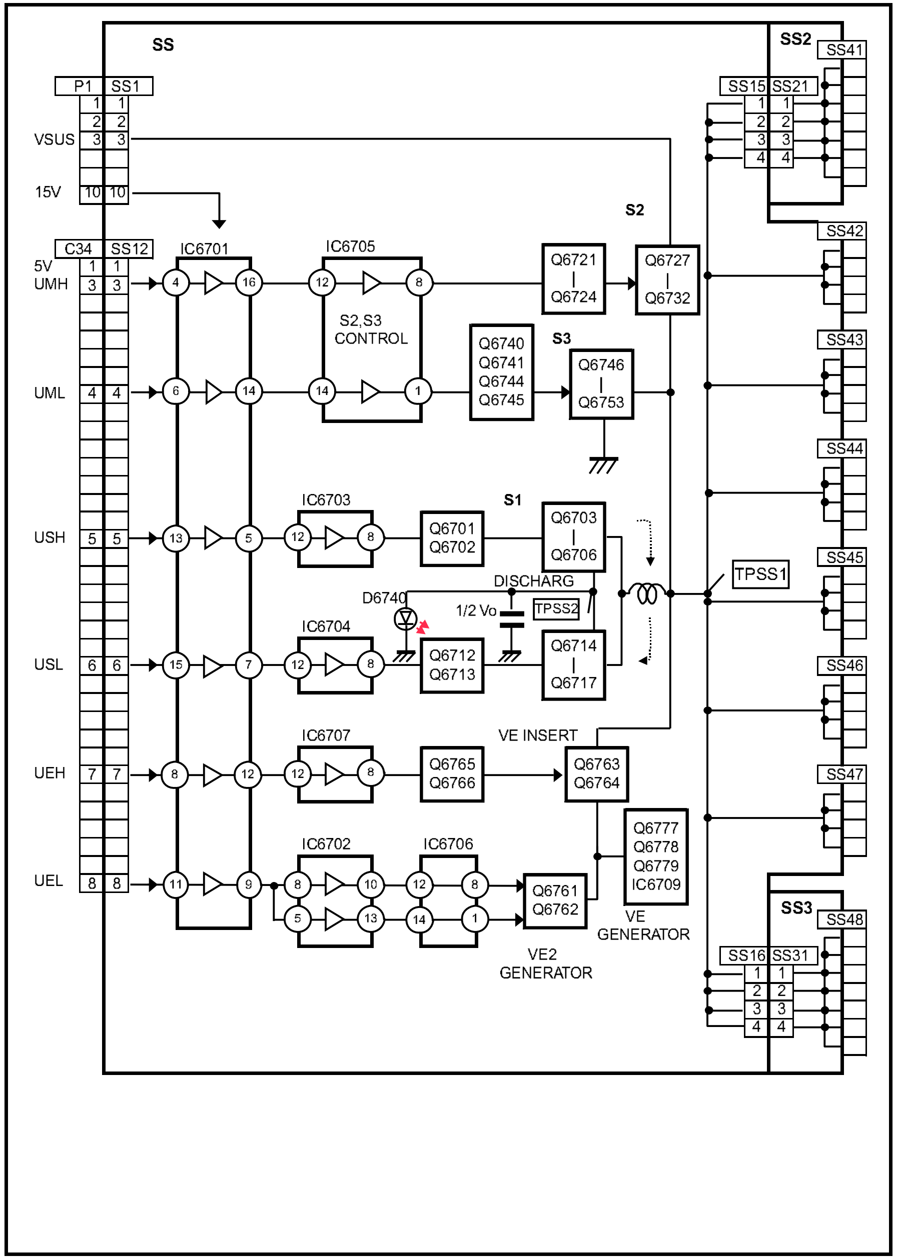
13.76. SU-Board (1/2) Schematic Diagram


SU-BOARD TNPA1920 (1/2)
UP
SU1
SU2
IC6401
SN755864
IC6402
SN755864
IC6403
SN755864
Vf
Vfo
Vf5
Vf
A
B
C
D
E
FOIL (UP)
COMP (DW)
TO
SC-BOARD
(SC41)
SU51 (Card Edge)
FSI
FCL
FCLK
PRO
VF5V
VF5V
D6402
C6411
2200p
R6401
220
C6413
2200P
D6401
R6402
220
R6407
R6405
R6403
220
1
2
3
4
5
6
7
A
B
C
D
E
F

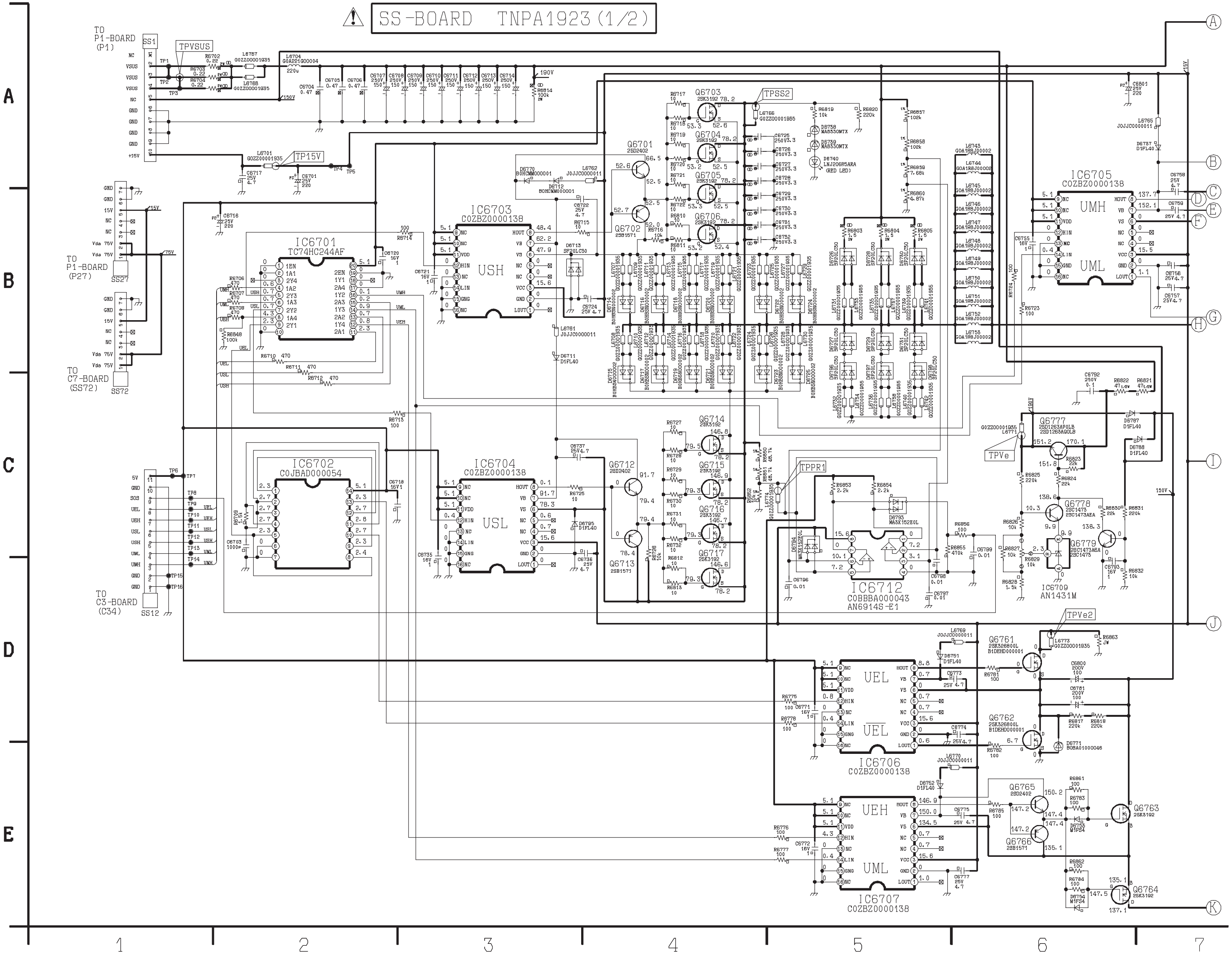
13.77. SU-Board (2/2) Schematic Diagram


SU-BOARD TNPA1920 (2/2)
SU3
SU4
IC6404
SN755864
IC6405
SN755864
IC6406
SN755864
C6404
C6405
C6407
R6404 220
R6405 220
R6406 220
A
B
C
D
E
Vfo
FOIL (UP)
COMP (DW)
TO SC-BOARD (SC42)
SU52 (Card Edge)
VFO
-35.0
33.0
8
9
10
11
12
13
14

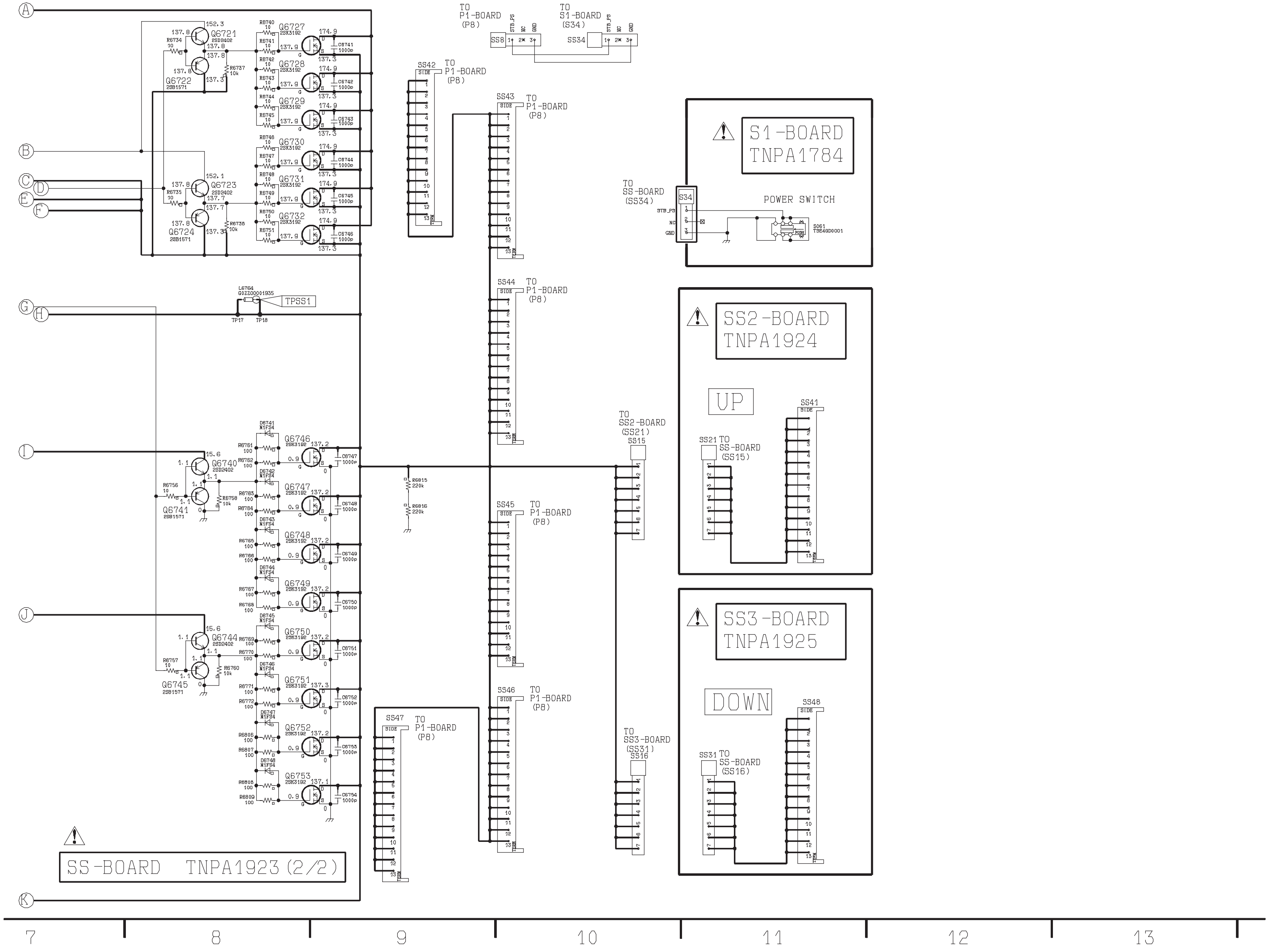
13.78. SS, SS2 amd SS3 Board Block


SS
SS2
SS3
P1
SS1
VSUS
15V
C34
SS12
5V
UMH
UML
USH
USL
UEH
UEL
IC6701
IC6705
S2,S3
CONTROL
IC6703
IC6704
IC6707
IC6702
IC6706
Q6721
Q6724
Q6727
Q6732
S2
Q6740
Q6741
Q6744
Q6745
S3
Q6746
Q6753
S1
Q6701
Q6702
Q6703
Q6706
DISCHARG
D6740
1/2 Vo
TPSS2
Q6712
Q6713
Q6714
Q6717
TPSS1
VE INSERT
Q6765
Q6766
Q6763
Q6764
Q6777
Q6778
Q6779
IC6709
VE
GENERATOR
Q6761
Q6762
VE2
GENERATOR
SS15
SS21
SS16
SS31
SS41
SS42
SS43
SS44
SS45
SS46
SS47
SS48

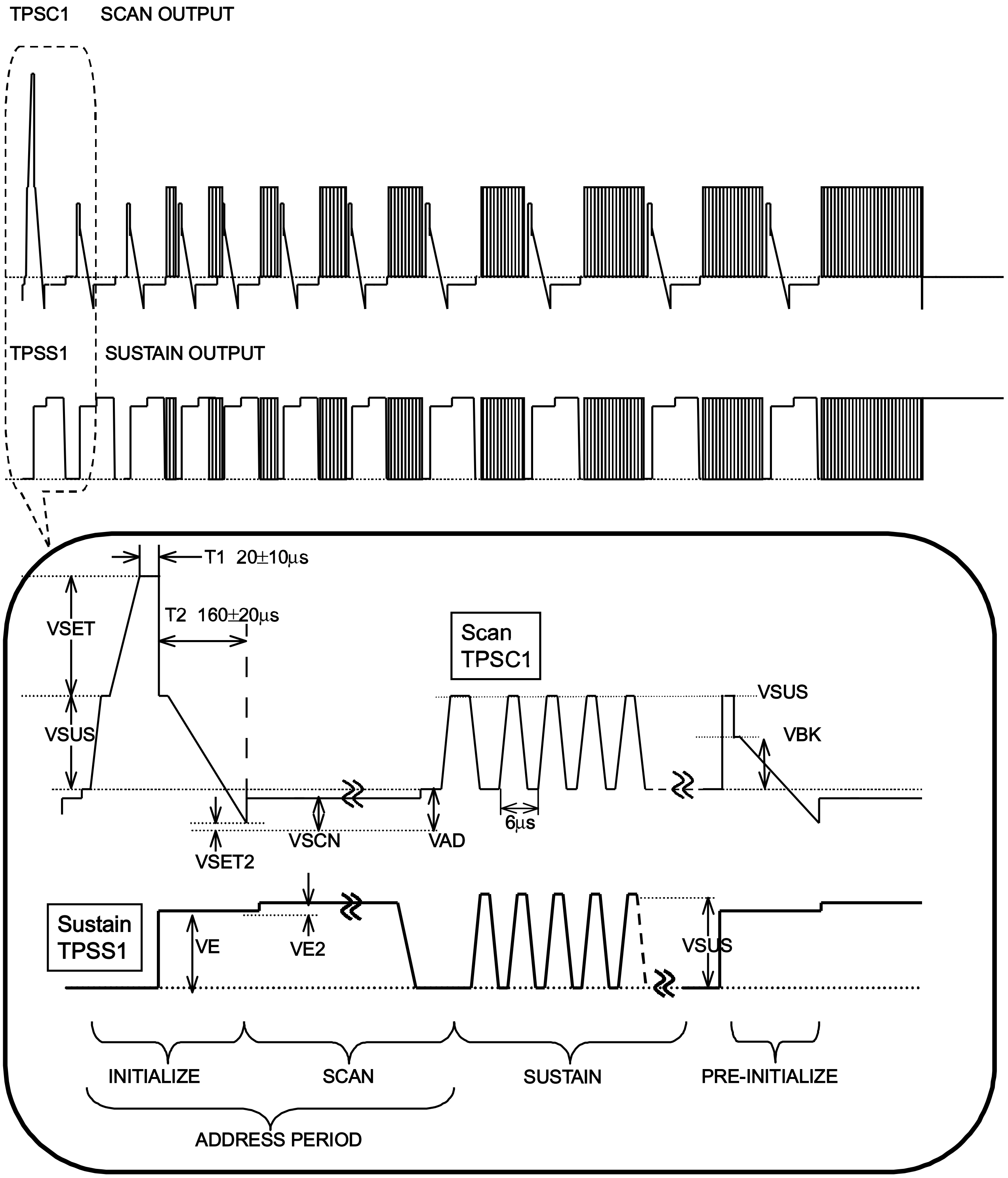
13.79. SS-Board (1/2) Schematic Diagram


SS-BOARD TNPA1923(1/2)
TO P1-BOARD (P1)
SS1
TPVSUS
TP15V
TO P1-BOARD (P27)
SS27
TO C7-BOARD (SS72)
SS72
TO C3-BOARD (C34)
SS12
IC6701 TC74HC244AF
IC6702 C0JBAD000054
IC6703 C0ZBZ0000138
USH
IC6704 C0ZBZ0000138
USL
IC6705 C0ZBZ0000138
UMH
UML
IC6706 C0ZBZ0000138
UEL
IC6707 C0ZBZ0000138
UEH
UML
IC6709 AN1431M
IC6712 C0BBBA000043 AN6914S-E1
TPSS2
TPPR1
TPVe
TPVe2
Q6701 2SD2402
Q6702 2SB1571
Q6703 2SK3192
Q6704 2SK3192
Q6705 2SK3192
Q6706 2SK3192
Q6712 2SD2402
Q6713 2SB1571
Q6714 2SK3192
Q6715 2SK3192
Q6716 2SK3192
Q6717 2SK3192
Q6761 2SK3268OOL B1DEHD000001
Q6762 2SK3268OOL B1DEHD000001
Q6763 2SK3192
Q6764 2SK3192
Q6765 2SD2402
Q6766 2SB1571
Q6777 2SD1263AP0LB 2SD1263AQ0LB
Q6778 2SC1473 2SC1473AEA
Q6779 2SC1473AEA 2SC1475
190V
150V
15V
A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7

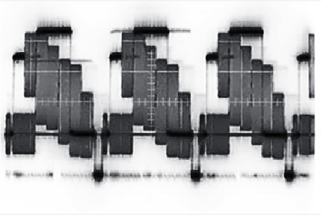
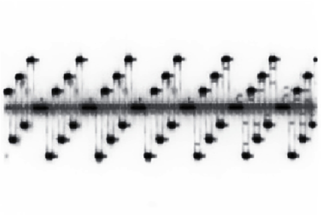
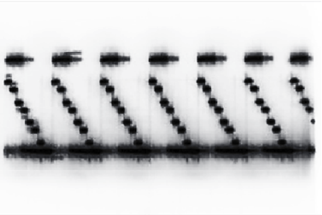
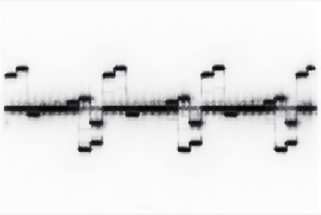
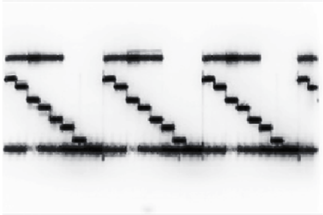
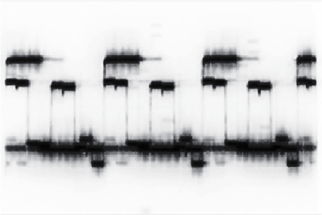
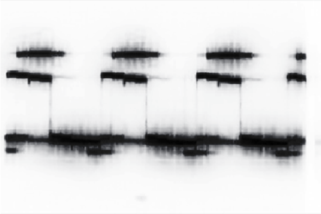
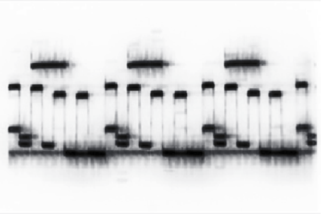
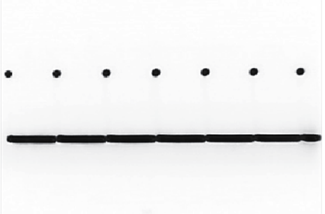
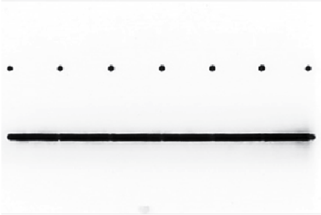
13.80. SS-Board (2/2) SS2-Board, SS3-Board and S1-Board Schematic Diagram


S1-BOARD
TNPA1784
POWER SWITCH
S061
TSE49D0001
S34
STB_PS
NC
GND
TO
SS-BOARD
(SS34)
SS2-BOARD
TNPA1924
UP
SS41
SS21 TO
SS-BOARD
(SS15)
SS3-BOARD
TNPA1925
DOWN
SS48
SS31 TO
SS-BOARD
(SS16)
SS-BOARD TNPA1923(2/2)
TO
P1-BOARD
(P8)
SS8
TO
S1-BOARD
(S34)
SS34
SS42
SS43
SS44
SS45
SS46
SS47
TO
SS2-BOARD
(SS21)
SS15
TO
SS3-BOARD
(SS31)
SS16
Q6721
2SD2402
Q6722
2SB1571
Q6723
2SD2402
Q6724
2SB1571
Q6727
Q6728
Q6729
Q6730
Q6731
Q6732
2SK3192
Q6740
2SD2402
Q6741
2SB1571
Q6744
2SD2402
Q6745
2SB1571
Q6746
Q6747
Q6748
Q6749
Q6750
Q6751
Q6752
Q6753
2SK3192
L6764
G0ZZ00001935
TPSS1
TP17
TP18
R6815
220k
R6816
220k
152.3
137.8
137.3
152.1
137.7
174.9
137.9
137.3
15.6
1.1
137.2
137.1
0.9
A
B
C
D
E
F
G
H
I
J
K
7
8
9
10
11
12
13

14 Panel drive signal wave form


TPSC1 SCAN OUTPUT
TPSS1 SUSTAIN OUTPUT
T1 20±10µs
T2 160±20µs
VSET
VSUS
Scan
TPSC1
VSUS
VBK
6µs
VSET2
VSCN
VAD
Sustain
TPSS1
VE
VE2
VSUS
INITIALIZE
SCAN
SUSTAIN
PRE-INITIALIZE
ADDRESS PERIOD

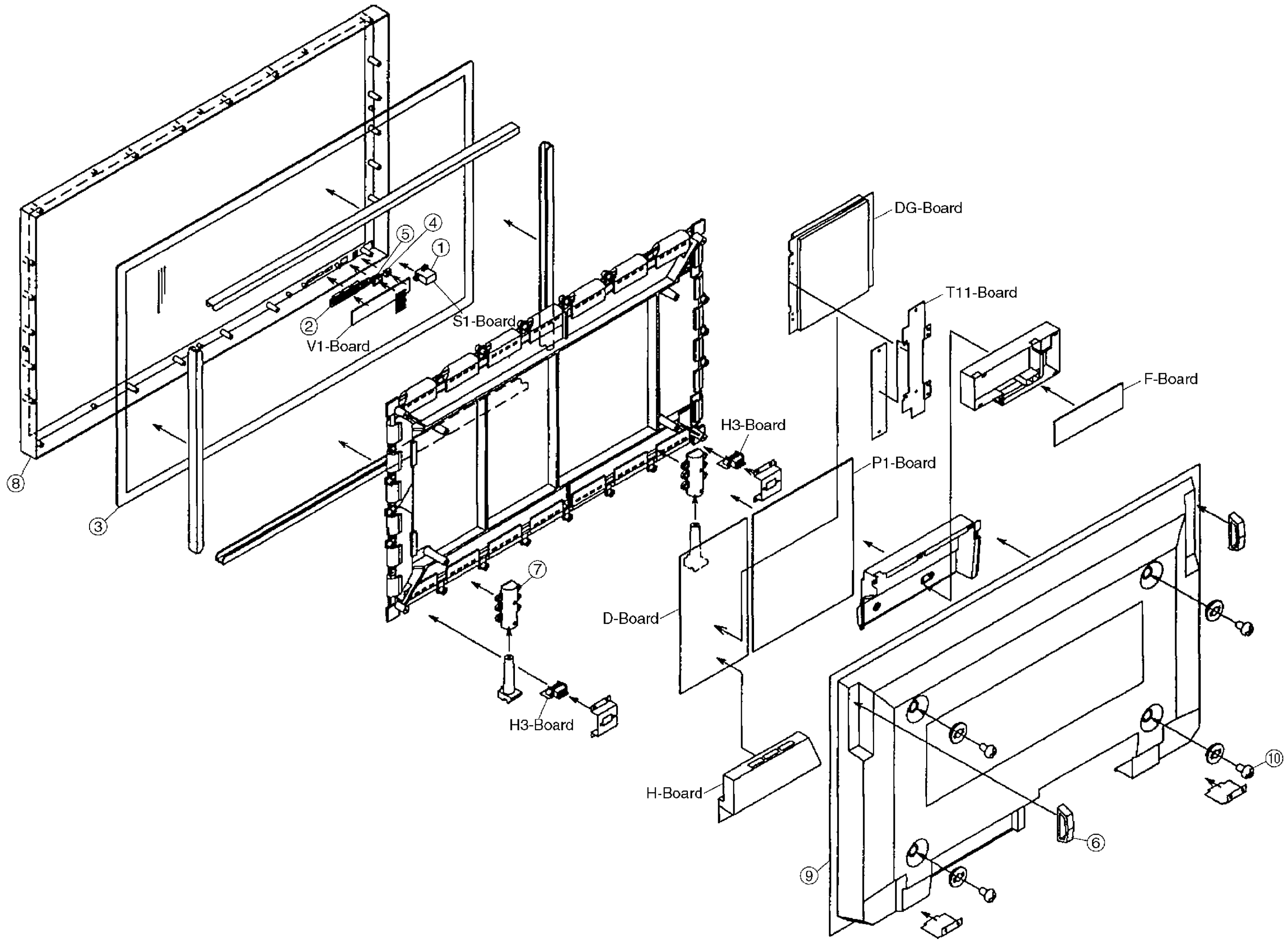
15 Signal Waveform

TP8004 (DG-BOARD)  1.5 Vp-p (20μsec) V	TS8001 (DG-BOARD)  0.7 Vp-p (50μsec) B/PB	TS8002 (DG-BOARD)  0.6 Vp-p (50μsec) G/Y
TS8003 (DG-BOARD)  0.6 Vp-p (20μsec) R/PR	TP8003 (DG-BOARD)  0.6 Vp-p (20μsec) V/Y	TPD20 (D-BOARD)  0.7 Vp-p (20μsec) R
TPD21 (D-BOARD)  0.7 Vp-p (20μsec) G	TPD22 (D-BOARD)  0.6 Vp-p (20μsec) B	TP8016 (DG-BOARD)  2.0 Vp-p (50μsec) HD
TP8014 (DG-BOARD)  2.4 Vp-p (10msec) VD		

∗Signal : PAL. composite. signal.

16 Parts Location

Note:
The number on mechanical parts indicates Ref. No. Mechanical Replacement Parts List


DG-Board
T11-Board
F-Board
④
⑤
①
②
S1-Board
V1-Board
H3-Board
P1-Board
⑧
③
⑦
D-Board
H3-Board
H-Board
⑩
⑥
⑨

17 Mechanical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	EUR646525	REMOTE CONTROL	1	
	FBL06A12LS	FAN	1	
	J0KG00000042	NOISE FILTER	1	
	K2CK3DH00002	AC CORD	1	A version ⚠
	K2CT3DH00007	AC POWER CORD	1	B version ⚠
	K2CN3DH00001	AC CORD	1	E version ⚠
	K2CG3DH00025	AC POWER CORD	1	U version ⚠
	K2ZZ02900010	CABLE (BLUE)	1	
	K2ZZ02900011	CABLE (RED)	1	
	K2ZZ02900012	CABLE (BLACK)	1	
	K5Y632B00001	FUSE 250V 6.3A	2	TH-50PHW3A/B/E, TH-50PHD3A/B/E ⚠
	K5Y802B00001	FUSE 250V 8A	2	TH-50PHW3U, TH-50PHD3U ⚠
	KRCBC160928B	NOISE FILTER	1	
	MC127W27P1	DISPLAY PANEL ASS,Y	1	
	TBMA008	PANASONIC BADGE	1	TH-50PHW3U, TH-50PHD3A/B/E/U
	TBMA059	PANASONIC BADGE	1	TH-50PHW3A/B/E
1	TBXA28201A	POWER BUTTON	1	TH-50PHW3U, TH-50PHD3A/B/E/U
1	TBXA28202A	POWER BUTTON	1	TH-50PHW3A/B/E
2	TBXA28501	BUTTON	1	TH-50PHW3U, TH-50PHD3A/B/E/U
2	TBXA28502	BUTTON	1	TH-50PHW3A/B/E
	TESD031	SPRING	1	
	THEA068N	SCREW	6	
	THEJ004Z	SCREW	2	
	THEL023Z	SCREW	9	
	THEL024N	SCREW	8	
	THEL027N	SCREW	11	
	TJS1A4270	BNC-RCA CONNECTOR	1	
3	TKGA5057	FRONT GLASS	1	TH-50PHW3A/B/E, TH-50PHD3A/B/E/U
3	TKGA5059	FRONT GLASS	1	TH-50PHW3U
4	TKKC5105	LED PANEL	1	
5	TKPA43801	REMOCON RECEIVE PANEL	1	TH-50PHW3A/B/E
5	TKPA43802	REMOCON RECEIVE PANEL	1	TH-50PHW3U, TH-50PHD3A/B/E/U
6	TKRA20501	HANDLE	2	
	TMKG252	CUSHION (ESC)	2	
	TMKG253	CUSHION (ESC)	2	
	TMKG271	CUSHION (FAN)	2	
	TMKX236	INSULATOR	1	
	TMM14420	SPACER	2	
	TMM14467	SPACER	2	
	TMM25401	CLAMPER	1	
	TMM7468-1	CLAMPER	3	
	TMM81488	CLAMPER	2	
	TMMD007-1	SPACER(LEFT)	1	TMMD007
	TMMD008-1	SPACER(RIGHT)	1	TMMD008
	TMME047	CLAMPER	2	
	TMME075	EDGE SADDLE	2	
	TMME108	CABLE STRAP	2	
	TMME142	CLAMPER	2	
	TMME143	CLAMPER	2	
	TMME144	CLAMPER	4	
	TMME145	SPACER	2	
	TMME152	CLAMPER	2	
	TMMX033	CABLE HOLDER	4	
	TMMX043	SPACER (UPPER)	4	
	TMMX044	SPACER (BOTTOM)	4	
	TMMX062	SPACER(A)	8	
	TMMX063	SPACER(B)	8	
	TMMX064	SPACER(A)	15	
	TMMX067	CAP	5	
	TMMX070	SPACER(C)	15	
	TMWC006-1	POWER BUTTON BRACKET	1	
	TMX6432	PRINT HOLDER	2	
	TMZA5003	ESCUTCHEON HOLD BRACKET	2	
7	TMZX5015	STAND POLE BRACKET(L)	1	
7	TMZX5015-2	STAND POLE BRACKET(R)	1	
	TPCA97103	CARTON BOX	1	TH-50PHW3U ⚠
	TPCA97104	CARTON BOX	1	TH-50PHW3E ⚠
	TPCA97105	CARTON BOX	1	TH-50PHW3B ⚠
	TPCA97106	CARTON BOX	1	TH-50PHW3A ⚠
	TPCA97107	CARTON BOX	1	TH-50PHD3U ⚠
	TPCA97108	CARTON BOX	1	TH-50PHD3E ⚠
	TPCA97109	CARTON BOX	1	TH-50PHD3B ⚠
	TPCA97110	CARTON BOX	1	TH-50PHD3A ⚠
	TPCA97201	CARTON BOX(BOTTOM)	1	
	TPD169487	JOINT	4	
	TPDA0510	CUSHION(UPPER RIGHT)	1	
	TPDA0511	CUSHION(UPPER LEFT)	1	
	TPDA0512	CUSHION(UPPER CENTER)	1	
	TPDA0513	CUSHION(BOTTOM RIGHT)	1	
	TPDA0514	CUSHION(BOTTOM LEFT)	1	
	TPDA0515	CUSHION(BOTTOM CENTER)	1	
	TPDF0536	PAD(TOP)	1	
	TPEH007-3	PROTECT COVER	1	
	TPEH125	POLE BAG	1	
	TQBC0241	INSTRUCTION BOOK(ENGLISH)	1	TH-50PHW3U ⚠
	TQBC0242	INSTRUCTION BOOK(FRENCH)	1	TH-50PHW3U ⚠
	TQBC0243	INSTRUCTION BOOK(SPANISH)	1	TH-50PHW3U ⚠
	TQBC0245	INSTRUCTION BOOK(GERMANY)	1	TH-50PHD3E, TH-50PHW3E ⚠
	TQBC0247	INSTRUCTION BOOK(ITALY)	1	TH-50PHD3E, TH-50PHW3E ⚠
	TQBC0249	INSTRUCTION BOOK(HOLLAND)	1	TH-50PHD3E, TH-50PHW3E ⚠
	TQBC0250	INSTRUCTION BOOK(DENMARK)	1	TH-50PHD3E, TH-50PHW3E ⚠
	TQBC0251	INSTRUCTION BOOK(SWEDEN)	1	TH-50PHD3E, TH-50PHW3E ⚠
	TQBC0244	INSTRUCTION BOOK(ENGLISH)	1	TH-50PHD3A/E, TH-50PHW3A/E ⚠
	TQBC0246	INSTRUCTION BOOK(FRENCH)	1	TH-50PHD3E, TH-50PHW3E ⚠
	TQBC0248	INSTRUCTION BOOK(SPANISH)	1	TH-50PHD3E, TH-50PHW3E ⚠
	TQBC0252	INSTRUCTION BOOK(ENGLISH)	1	TH-50PHD3B, TH-50PHW3B ⚠
	TQBC0260	INSTRUCTION BOOK(ENGLISH)	1	TH-50PHD3U ⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TQBC0261	INSTRUCTION BOOK(FRENCH)	1	TH-50PHD3U ⚠
	TQBC0262	INSTRUCTION BOOK(SPANISH)	1	TH-50PHD3U ⚠
	TQBC7032	SERVICE CENTER LIST	1	TH-50PHW3U ⚠
	TSXL094	CABLE (D1-T1)	1	
	TSXL095	80P CABLE (T2-DG1)	1	
	TSXL139	CABLE	8	
	TSXL143	CABLE	4	
	TSXL146	CABLE	8	
	TSXL152	CABLE (C31-D33)	1	
	TSXL153	CABLE (C41-D34)	1	
8	TTEA0049	ESCUTCHEON	1	TH-50PHW3U
8	TTEA0047	ESCUTCHEON	1	TH-50PHD3A/B/E/U
8	TTEA0050	ESCUTCHEON	1	TH-50PHW3A/B/E
9	TTUA0398	REAR COVER	1	TH-50PHW3U
9	TTUA0399	REAR COVER	1	TH-50PHW3A/B/E
9	TTUA0401	REAR COVER	1	TH-50PHD3U
9	TTUA0402	REAR COVER	1	TH-50PHD3A/B/E
	TXAJS010L32	AC INLET	1	⚠
	TXFKK010L32	INSULATOR BLOCK	2	
	XTV3+10J	SCREW	2	
	XTV3+8J	SCREW	2	
	XYC3+FF12	SCREW	2	
	XYN3+F10	SCREW	2	
	XYN3+F10FZ	SCREW	2	
	XYN3+F6	SCREW	18	
	XYN3+F8	SCREW	1	
	XYN4+E8	SCREW	1	
	XYN4+F35FZ	SCREW	19	
	XYN5+C20	SCREW	8	
10	XYN8+F20FZ	SCREW	4	
	XZBT6506	POLY BAG	1	

18 Replacement Parts List

18.1. Relpacement Parts List Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer’s specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

Type Allowance

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V

Type Allowance

Type	Allowance
C : Carbon	F : ±1%
F : Fuse	G : ±2%
M : Metal Oxide	J : ±5%
Metal FIlm	K : ±10%
S : Solid	M : ±20%
W : Wire Wound	

Type	Allowance
C : Ceramic	C : ±0.25pF
E : Electrolytic	D : ±0.5pF
P : Polyester	F : ±1pF
Polyprop	G : ±3pF
lene	J : ±5pF
T : Tantalum	K : ±10pF
	L : ±15pF
	M : ±20pF
	P : +100%, -0%
	Z : +80%, -20%

18.2. Electrical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RTL	TXNP110L32	CIRCUIT BOARD P1	1	⚠
RTL	TNPA1756AB	CIRCUIT BOARD H3	1	⚠
RTL	TNPA1996	CIRCUIT BOARD (T11)	1	⚠
RTL	TXNDG10L33	CIRCUIT BOARD (DG)	1	⚠
RTL	TXN/F10L32	CIRCUIT BOARD F	1	TH-50PHW3U, TH-50PHD3U ⚠
RTL	TXN/F10HAS	CIRCUIT BOARD F	1	TH-50PHW3A/B/E, TH-50PHD3A/B/E ⚠
RTL	TXN/H10L28	CIRCUIT BOARD H	1	⚠
RTL	TNPA1906	CIRCUIT BOARD P9	2	⚠
RTL	TNPA1907	CIRCUIT BOARD (P3)	1	⚠
RTL	TNPA1909	CIRCUIT BOARD (P5)	1	⚠
RTL	TNPA1910	CIRCUIT BOARD (P6)	1	⚠
RTL	TNPA1911	CIRCUIT BOARD (P7)	1	⚠
RTL	TNPA1912	CIRCUIT BOARD (P8)	1	⚠
RTL	TNPA1908	CIRCUIT BOARD (P4)	1	⚠
RTL	TNPA1915	CIRCUIT BOARD (C2)	1	⚠
RTL	TNPA1916	CIRCUIT BOARD (C3)	1	⚠
RTL	TNPA1917	CIRCUIT BOARD (C4)	1	⚠
RTL	TNPA1918	CIRCUIT BOARD (C5)	1	⚠
RTL	TNPA1919	CIRCUIT BOARD (C6)	1	⚠
RTL	TNPA1920	CIRCUIT BOARD (SU)	1	⚠
RTL	TNPA1921	CIRCUIT BOARD (SD)	1	⚠
RTL	TNPA1993	CIRCUIT BOARD (C7)	2	⚠
RTL	TNPA2277	CIRCUIT BOARD C8	2	⚠
RTL	TNPA1922	CIRCUIT BOARD (SC)	1	⚠
RTL	TNPA1923	CIRCUIT BOARD (SS)	1	⚠
RTL	TNPA1924	CIRCUIT BOARD (SS2)	1	⚠
RTL	TNPA1925	CIRCUIT BOARD (SS3)	1	⚠
RTL	TNPA1914	CIRCUIT BOARD (C1)	1	⚠
RTL	TZTNP010GYS	CIRCUIT BOARD (D)	1	⚠
RTL	TNPA1784	CIRCUIT BOARD S1	1	⚠
RTL	TNPA1783	CIRCUIT BOARD V1	1	⚠
C11	K1MN80B00001	1P CONNECTOR	1	
C12	TJS6A9760	25P CONNECTOR	1	K1KA25A00013
C13	TJS5A8620	7P CONNECTOR	1	K1KB07A00030
C21	K1MN80B00001	1P CONNECTOR	1	
C22,23	TJS5A8630	7P CONNECTOR	2	K1KA07A00092
C31	K1MN80B00001	1P CONNECTOR	1	
C33	TJS5A8620	7P CONNECTOR	1	K1KB07A00030
C34	TJS1A8870	11P CONNECTOR	1	K1KA11A00073
C35	TJS6A9760	25P CONNECTOR	1	K1KA25A00013
C41	K1MN80B00001	1P CONNECTOR	1	
C42	TJS6A9760	25P CONNECTOR	1	K1KA25A00013
C43	TJS5A8620	7P CONNECTOR	1	K1KB07A00030
C44	K1KA08A00232	8P CONNECTOR	1	
C51	K1MN80B00001	1P CONNECTOR	1	
C52,53	TJS5A8630	7P CONNECTOR	2	K1KA07A00092
C61	K1MN80B00001	1P CONNECTOR	1	
C62	TJS6A9760	25P CONNECTOR	1	K1KA25A00013
C63	TJS5A8620	7P CONNECTOR	1	K1KB07A00030
C71	TJS6A9770	25P CONNECTOR	1	K1KB25B00005
C72	TJS1A8830	CONNECTOR	1	K1KA07A00056
C081	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C81	TJS6A9770	25P CONNECTOR	1	K1KB25B00005
C400,01	ECKDNA222ME	C 2200PF,	2	
C402	ECQU2A105MGA	P 1UF, 250V	1	⚠
C403	ECQB1H473JF	P 0.047UF, J, 50V	1	
C404	ECKDNA222ME	C 2200PF,	1	
C405	ECKF1H681KB	C 680PF, K, 50V	1	
C406	ECWF4105JB	P 1UF, J,400V	1	
C407,08	ECKD3A101KBP	C 100PF, K, 1KV	2	
C409,10	ECKD3A102KBP	C 1000PF, K, 1KV	2	
C411,12	EETHC2W331L	E 330UF, 450V	2	
C413	ECQU2A683MN	P 0.068UF, M,250V	1	
C415	EEUFC1E471	E 470UF, 25V	1	
C416	ECA2WHG220	E 22UF, 450V	1	
C417,18	EETHC2W331L	E 330UF, 450V	2	
C419	ECKD3D392KBP	C 3900PF, K, 2KV	1	
C421	ECQE10104KF	P 0.1UF, K, 1KV	1	
C422	ECA1HHG221	E 220UF, 50V	1	
C423	ECA1HHG220	E 22UF, 50V	1	
C424	ECQV1H104JM	P 0.1UF, J, 50V	1	
C425	ECA1EHG470	E 47UF, 25V	1	
C426	ECKD2H821KB2	C 820PF, K,500V	1	
C427	ECKD3A101KBP	C 100PF, K, 1KV	1	
C428	ECQV1H104JM	P 0.1UF, J, 50V	1	
C429	ECA1HHG221	E 220UF, 50V	1	
C430	ECQV1H473JM	P 0.047UF, J, 50V	1	
C431	ECKF1H681KB	C 680PF, K, 50V	1	
C432	ECQB1H473JF	P 0.047UF, J, 50V	1	
C433,34	ECKD3D102KBP	C 1000PF, K, 2KV	2	
C435	ECKD3A102KBP	C 1000PF, K, 1KV	1	
C437,38	ECKD2H561KB2	C 560PF, K,500V	2	
C439	ECA1EHG470	E 47UF, 25V	1	
C440	EEUFC1C471	E 470UF, 16V	1	
C441,42	ECKD3A101KBP	C 100PF, K, 1KV	2	
C443	ECA1EHG102	E 1000UF, 25V	1	
C444,45	ECKD3A101KBP	C 100PF, K, 1KV	2	
C447,48	ECQB1H103JF	P 0.01UF, J, 50V	2	
C449	EEUFC1E332	E 3300UF, 25V	1	
C451	ECQB1H272JF	P 2700PF, J, 50V	1	
C452	EC0S1KA272CB	E 2700UF, 80V	1	
C453,54	ECA1EHG222	E 2200UF, 25V	2	
C455	ECQB1H103JF	P 0.01UF, J, 50V	1	
C458	ECKD2H103ZU	C 0.01UF, Z,500V	1	
C462	EEUFC1C472	E 4700UF, 16V	1	
C463	EEUEB1E470	E 47UF, 25V	1	
C464-66	ECKD3A102KBP	C 1000PF, K, 1KV	3	
C467	EEUEB1H220	E 22UF, 50V	1	
C468	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C469	EEUEB1H4R7S	E 4.7UF, 50V	1	
C472	ECA1HHG220	E 22UF, 50V	1	
C475	ECKDHT122KB	C 1200PF, 500V	1	
C476-80	EETHC2E102K	E 1000UF, 250V	5	
C481	ECA1HHG220	E 22UF, 50V	1	
C484	ECKDHT122KB	C 1200PF, 500V	1	
C485	EEUFC1A682	E 6800UF, 10V	1	
C486	ECA2DHG220	E 22UF, 200V	1	
C487	ECQV1H105JM	P 1UF, J, 50V	1	
C488	ECQB1H563JF	P 0.056UF, J, 50V	1	
C489	ECA2DHG220	E 22UF, 200V	1	
C491	EC0S1KA272CB	E 2700UF, 80V	1	
C492	ECKDHT332KB	C 3300PF, K,500V	1	
C494	ECQB1H563JF	P 0.056UF, J, 50V	1	
C495,96	ECKF1H471KB	C 470PF, K, 50V	2	
C497	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C498	ECQB1H272JF	P 2700PF, J, 50V	1	
C499	ECQB1H471JF	P 470PF, J, 50V	1	
C500	ECA1EHG470	E 47UF, 25V	1	
C502	ECQV1H105JM	P 1UF, J, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C503	ECQB1H103JF	P 0.01UF, J, 50V	1	
C504	EEUEB1E470	E 47UF, 25V	1	
C505	EEUEB1E101	E 100UF, 16V	1	
C507	EEUEB1E101	E 100UF, 16V	1	
C509	EEUFC1E332	E 3300UF, 25V	1	
C510	ECQV1H105JM	P 1UF, J, 50V	1	
C511,12	ECQE6105JF	P 1UF, J,630V	2	
C513	ECA2CHG100	E 10UF, 160V	1	
C515	EEUFC1H330	E 33UF, 50V	1	
C516	ECQV1H473JM	P 0.047UF, J, 50V	1	
C517	EEUFC1H330	E 33UF, 50V	1	
C518	ECQV1H473JM	P 0.047UF, J, 50V	1	
C519,20	ECKF1H223ZF	C 0.022UF, Z, 50V	2	
C521	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C600	ECA1HHG220	E 22UF, 50V	1	
C601	ECQV1H105JM	P 1UF, J, 50V	1	
C602	ECKF1H681KB	C 680PF, K, 50V	1	
C603,04	ECQV1H105JM	P 1UF, J, 50V	2	
C606	ECQV1H105JM	P 1UF, J, 50V	1	
C607	ECA1HHG4R7	E 4.7UF, 50V	1	
C608	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C609	ECQB1H103JF	P 0.01UF, J, 50V	1	
C610	ECQB1H223JF	P 0.022UF, J, 50V	1	
C611	ECQB1H333JF	P 0.033UF, J, 50V	1	
C612	ECCF1H220JC	C 22PF, J, 50V	1	
C613	ECQV1H105JM	P 1UF, J, 50V	1	
C614-17	ECKF1H471KB	C 470PF, K, 50V	4	
C618	ECQV1H224JM	P 0.22UF, J, 50V	1	
C619	ECQB1H473JF	P 0.047UF, J, 50V	1	
C635	ECQM4103JZ	P 0.01UF, J,400V	1	
C636	ECA1HHG100	E 10UF, 50V	1	
C637,38	ECKD3A472KBP	C 4700PF, K, 1KV	2	
C639	ECQB1H473JF	P 0.047UF, J, 50V	1	
C650-52	ECKF1H103ZF	C 0.01UF, Z, 50V	3	
C653	ECQV1H104JM	P 0.1UF, J, 50V	1	
C654	ECKF1H101KB	C 100PF, K, 50V	1	
C655	ECA1HHG220	E 22UF, 50V	1	
C656	ECA1HHG010	E 1UF, 50V	1	
C657	ECQB1H102JF	P 1000PF, J, 50V	1	
C658	ECQB1H681JF	P 680PF, J, 50V	1	
C659	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C660	ECQB1H103JF	P 0.01UF, J, 50V	1	
C661	ECQB1H102JF	P 1000PF, J, 50V	1	
C730	ECQB1H681JF	P 680PF, J, 50V	1	
C731	ECKF1H221KB	C 220PF, K, 50V	1	
C732	ECA1HHG220	E 22UF, 50V	1	
C733	ECQB1H102JF	P 1000PF, J, 50V	1	
C734	EEUFC1H221	E 220UF, 50V	1	
C735	ECQV1H104JM	P 0.1UF, J, 50V	1	
C736	ECJ2VB1C224K	C 0.22UF, K, 16V	1	
C737	ECQB1H334JF	P 0.33UF, J, 50V	1	
C738-40	ECQB1H102JF	P 1000PF, J, 50V	3	
C741	ECA1HHG220	E 22UF, 50V	1	
C742	ECQB1H103JF	P 0.01UF, J, 50V	1	
C743-45	ECQV1H104JM	P 0.1UF, J, 50V	3	
C750,51	ECKF1H103ZF	C 0.01UF, Z, 50V	2	
C752	ECA1EHG471	E 470UF, 25V	1	
C754	ECA1EHG470	E 47UF, 25V	1	
C755	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C756	ECA1EHG470	E 47UF, 25V	1	
C757	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C759	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C775,76	ECKF1H103ZF	C 0.01UF, Z, 50V	2	
C778-81	ECA1HHG010	E 1UF, 50V	4	
C782	ECA1EHG101	E 100UF, 25V	1	
C783	ECA1EHG470	E 47UF, 25V	1	
C784	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C785	ECA1EHG471	E 470UF, 25V	1	
C786	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C787	ECA1EHG470	E 47UF, 25V	1	
C900	ECQU2A105BN	P 1UF, 250V	1	⚠
C901	ECQU2A224BN	P 0.22UF, 250V	1	⚠
C903-06	ECKCNA221MBB	C 220PF, M,	4	⚠
C907	ECQU2A105MGA	P 1UF, 250V	1	⚠
C908	ECQU2A224BN	P 0.22UF, 250V	1	⚠
C909-12	ECKCNA221MBB	C 220PF, M,	4	⚠
C921	ECA2WHG100	E 10UF, 450V	1	
C922	ECQE6224KF	P 0.22UF, K,630V	1	
C924	ECKF1H102KB	C 1000PF, K, 50V	1	
C925	ECQB1H102JF	P 1000PF, J, 50V	1	
C926	ECQB1H821JF	P 820PF, J, 50V	1	
C927	ECA1HHG220	E 22UF, 50V	1	
C928	ECQV1H104JM	P 0.1UF, J, 50V	1	
C929	ECA1HHG010	E 1UF, 50V	1	
C930	ECA1VHG221	E 220UF, 35V	1	
C932	ECKF1H101KB	C 100PF, K, 50V	1	
C934	ECQB1H103JF	P 0.01UF, J, 50V	1	
C935,36	ECKD3D102KBP	C 1000PF, K, 2KV	2	
C947	ECQE4473KF	P 0.047UF, K,400V	1	
C950	ECQV1H104JM	P 0.1UF, J, 50V	1	
C951	ECQB1H222JF	P 2200PF, J, 50V	1	
C952	ECA2CHG101	E 100UF, 160V	1	
C953	ECKDHT122KB	C 1200PF, 500V	1	
C954	ECA1EHG101	E 100UF, 25V	1	
C955	ECQV1H104JM	P 0.1UF, J, 50V	1	
C956	ECA1EHG101	E 100UF, 25V	1	
C957,58	ECA2CHG101	E 100UF, 160V	2	
C959	ECQV1H104JM	P 0.1UF, J, 50V	1	
C981,82	EEUFC1E561	E 560UF, 25V	2	
C983	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C984	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C985	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C986	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C987	ECJ2XB1H473K	C 0.047UF, K, 50V	1	
C988,89	EEUFC0J152	E 1500UF, 6.3V	2	
C2312	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C2313	ECA1HHG470	E 47UF, 50V	1	
C2314	ECA1CHG470	E 47UF, 16V	1	
C2316,17	ECQV1H474JM	P 0.47UF, J, 50V	2	
C2318,19	ECJ2XC1H561J	C 560PF, J, 50V	2	
C2320-22	ECJ2VF1H104Z	C 0.1UF, Z, 50V	3	
C2323	ECA1HM221	E 220UF, 50V	1	
C2324	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2325	ECA1HM221	E 220UF, 50V	1	
C2326,27	ECJ2XC1H221J	C 220PF, J, 50V	2	
C2328,29	ECJ2VF1H104Z	C 0.1UF, Z, 50V	2	
C2330	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C2331	ECJ2XC1H101J	C 100PF, J, 50V	1	
C2332	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C2333	ECJ2XC1H101J	C 100PF, J, 50V	1	
C2334,35	TCUY1C225KBM	C 2.2UF, 16V	2	F1K1C225A026
C2336,37	ECJ2XB1H473K	C 0.047UF, K, 50V	2	
C2338,39	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C2340-43	ECJ2VF1H104Z	C 0.1UF, Z, 50V	4	
C2344-47	EEUGZ1D102SB	E 1000UF, 20V	4	
C2348	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C2349,50	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C2401	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2402	ECA1VM470	E 47UF, 35V	1	
C2408	ECJ2XC1H151J	C 150PF, J, 50V	1	
C2409	EEANA1E100	E 10UF, 25V	1	
C2410,11	ECJ2XB1H153K	C 0.015UF, K, 50V	2	
C2412,13	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C2414	ECA1CM101	E 100UF, 16V	1	
C2415,16	TCUY1C105KBM	C 1UF, 16V	2	F1K1C105A026
C2417	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C2418	TCUY1C105KBM	C 1UF, 16V	1	F1K1C105A026
C2419	EEVHB1C100	E 10UF, 16V	1	
C2420	TCUY1E105KBM	C 1UF, K, 25V	1	F1K1E1050001
C2421	EEVHB1C100	E 10UF, 16V	1	
C2422	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C2423	ECJ2XB1H123K	C 0.012UF, K, 50V	1	
C2426	ECJ2XB1H123K	C 0.012UF, K, 50V	1	
C2427	EEVHB1C100	E 10UF, 16V	1	
C2428	ECJ2XB1H473K	C 0.047UF, K, 50V	1	
C2429	ECA1CM101	E 100UF, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2431	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C2433	ECJ2XB1H393K	C 0.039UF, K, 50V	1	
C2434	ECJ2XB1H223K	C 0.022UF, K, 50V	1	
C2435	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2436	TCUY1C105KBM	C 1UF, 16V	1	F1K1C105A026
C2437	ECA1CM101	E 100UF, 16V	1	
C2440,41	TCUY1C475ZFM	C 437UF, 16V	2	F1K1C4750018
C2450	EEVHB1C100	E 10UF, 16V	1	
C2451	EEVHB1E4R7	E 4.7UF, 25V	1	
C2452	ECJ2XB1H562K	C 5600PF, K, 50V	1	
C2453	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2454	EEVHB1E4R7	E 4.7UF, 25V	1	
C2455	ECA1CM101	E 100UF, 16V	1	
C2457	EEVHB1E4R7	E 4.7UF, 25V	1	
C2458	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C2459	TCUY1C105KBM	C 1UF, 16V	1	F1K1C105A026
C2460	ECJ2XB1H473K	C 0.047UF, K, 50V	1	
C2461,62	ECJ2XC1H102J	C 1000PF, J, 50V	2	
C2463	ECJ2XB1H473K	C 0.047UF, K, 50V	1	
C2464	ECJ2VB1H333K	C 0.033UF, K, 50V	1	
C2466,67	TCUY1C105KBM	C 1UF, 16V	2	F1K1C105A026
C2474	TCUY1C105KBM	C 1UF, 16V	1	F1K1C105A026
C3501	ECJ2XB1E104K	C 0.1UF, K, 25V	1	
C3502	EEVHB1C470	E 47UF, 16V	1	
C3504	ECJ2XB1E104K	C 0.1UF, K, 25V	1	
C3507	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3508	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3509	EEVHB1C470	E 47UF, 16V	1	
C3510	ECJ2VF1E104Z	C 0.1UF, Z, 25V	1	
C3511,12	ECJ1XC1H330J	C 33PF, J, 50V	2	
C3513-18	EEVHB1C470	E 47UF, 16V	6	
C3520	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3521	EEVHB1C470	E 47UF, 16V	1	
C3523	EEVHB1C470	E 47UF, 16V	1	
C3524	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3525-27	ECJ3XB0J106M	C 10UF, M,6.3V	3	
C3528	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3529-31	ECJ3XB0J106M	C 10UF, M,6.3V	3	
C3532	EEVHB1C470	E 47UF, 16V	1	
C3533-36	ECJ3XB0J106M	C 10UF, M,6.3V	4	
C3537-39	EEVHB1C470	E 47UF, 16V	3	
C3540,41	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C3542,43	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C3544	EEVHB1C470	E 47UF, 16V	1	
C3545	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3546	EEVHB1C470	E 47UF, 16V	1	
C3547	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3548,49	EEVHB1C470	E 47UF, 16V	2	
C3550-52	ECJ3XB0J106M	C 10UF, M,6.3V	3	
C3553	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3554	EEVHB1C470	E 47UF, 16V	1	
C3555-62	ECJ2VF1C105Z	C 1UF, Z, 16V	8	
C3563	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3564,65	EEVHB1C470	E 47UF, 16V	2	
C3566	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3567-69	ECJ3XB0J106M	C 10UF, M,6.3V	3	
C3570	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3571,72	EEVHB1C470	E 47UF, 16V	2	
C3573	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3574,75	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3576	EEVHB1H100	E 10UF, 50V	1	
C3577	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3578-80	ECJ2VF1H104Z	C 0.1UF, Z, 50V	3	
C3581-83	EEVHB1C470	E 47UF, 16V	3	
C3584	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C3585	EEVHB1C470	E 47UF, 16V	1	
C3587	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C3590	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3591,92	TCUY1C105ZFN	C 1UF, 16V	2	F1J1C1050006
C3593	ECJ2VF1E104Z	C 0.1UF, Z, 25V	1	
C3594,95	TCUY1C105ZFN	C 1UF, 16V	2	F1J1C1050006
C6401-04	TCUY1C105ZFN	C 1UF, 16V	4	F1J1C1050006
C6406,07	TCUY1C105ZFN	C 1UF, 16V	2	F1J1C1050006
C6411	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C6413	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C6421	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C6422-27	TCUY1C105ZFN	C 1UF, 16V	6	F1J1C1050006
C6429	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C6461-69	TCUY1C105ZFN	C 1UF, 16V	9	F1J1C1050006
C6470-73	ECJ2XB1H103K	C 0.01UF, K, 50V	4	
C6474	ECA2VHG100	E 10UF, 350V	1	
C6475	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C6501,02	EEUEB2D101	E 100UF, 200V	2	
C6503,04	ECA2VHG100	E 10UF, 350V	2	
C6511,12	F1L1E4750004	C 4.7UF, 25V	2	
C6513	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C6514	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C6515	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C6516	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C6517,18	ECA1EHG101	E 100UF, 25V	2	
C6521,22	F1K2H102A001	C 1000PF, 500V	2	
C6523,24	F1L1E4750004	C 4.7UF, 25V	2	
C6525	EEUEB1E101	E 100UF, 25V	1	
C6526	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C6531	ECA1EHG101	E 100UF, 25V	1	
C6532,33	F1L1E4750004	C 4.7UF, 25V	2	
C6534,35	TCUY1C105ZFN	C 1UF, 16V	2	F1J1C1050006
C6541-43	F1K2H102A001	C 1000PF, 500V	3	
C6544	F1L1E4750004	C 4.7UF, 25V	1	
C6545	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C6551	EEUEB1E101	E 100UF, 25V	1	
C6552	EEUFC1E221	E 220UF, 25V	1	
C6553,54	TCUY1C105ZFN	C 1UF, 16V	2	F1J1C1050006
C6555	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C6556	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C6557	F1L1E4750004	C 4.7UF, 25V	1	
C6558	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C6559,60	TCUY1C105ZFN	C 1UF, 16V	2	F1J1C1050006
C6561	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C6562	ECA1EHG101	E 100UF, 25V	1	
C6563	EEUFC1E102	E 1000UF, 25V	1	
C6565	EEUEB2D101	E 100UF, 200V	1	
C6571-78	TCUY1C105ZFN	C 1UF, 16V	8	F1J1C1050006
C6601-08	EEUEB2E151	E 150UF, 250V	8	
C6609-11	ECWF2474JSR	P 0.47UF, J,250V	3	
C6612	EEUFC1E102	E 1000UF, 25V	1	
C6613	ECA1EHG102	E 1000UF, 25V	1	
C6614,15	EEUEB2E151	E 150UF, 250V	2	
C6616	ECA1EHG101	E 100UF, 25V	1	
C6620	EEUEB2E151	E 150UF, 250V	1	
C6621-28	ECQE2335KB	P 3.3UF, K,250V	8	
C6629	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C6631-44	F1K2H102A001	C 1000PF, 500V	14	
C6661-66	F1L1E4750004	C 4.7UF, 25V	6	
C6667	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C6668,69	F1L1E4750004	C 4.7UF, 25V	2	
C6670	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C6671,72	F1L1E4750004	C 4.7UF, 25V	2	
C6673-75	TCUY1C105ZFN	C 1UF, 16V	3	F1J1C1050006
C6701	EEUFC1E221	E 220UF, 25V	1	
C6703	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C6704-06	ECWF2474JSR	P 0.47UF, J,250V	3	
C6707-14	EEUEB2E151	E 150UF, 250V	8	
C6716	EEUFC1E221	E 220UF, 25V	1	
C6717	F1L1E4750004	C 4.7UF, 25V	1	
C6718	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C6720,21	TCUY1C105ZFN	C 1UF, 16V	2	F1J1C1050006
C6722	F1L1E4750004	C 4.7UF, 25V	1	
C6724	F1L1E4750004	C 4.7UF, 25V	1	
C6725-32	ECQE2335KB	P 3.3UF, K,250V	8	
C6735	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C6736,37	F1L1E4750004	C 4.7UF, 25V	2	
C6741-54	F1K2H102A001	C 1000PF, 500V	14	
C6755	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C6756-59	F1L1E4750004	C 4.7UF, 25V	4	
C6771,72	TCUY1C105ZFN	C 1UF, 16V	2	F1J1C1050006

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6773-75	F1L1E4750004	C 4.7UF, 25V	3	
C6777	F1L1E4750004	C 4.7UF, 25V	1	
C6781	EEUEB2D101	E 100UF, 200V	1	
C6792	ECQE2104KF	P 0.1UF, K,250V	1	
C6793	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C6796-99	ECJ2XB1H103K	C 0.01UF, K, 50V	4	
C6800	EEUEB2D101	E 100UF, 200V	1	
C6801	EEUFC1E221	E 220UF, 25V	1	
C7103-05	TCUY1C105ZFN	C 1UF, 16V	3	F1J1C1050006
C7108,09	TCUY1C105ZFN	C 1UF, 16V	2	F1J1C1050006
C7110-17	TACCP1H105MT	C 1UF, 50V	8	F1L1H1050009
C7134	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7136,37	TCUY1C105ZFN	C 1UF, 16V	2	F1J1C1050006
C7139	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7140-45	TACCP1H105MT	C 1UF, 50V	6	F1L1H1050009
C7146	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7161-65	TCUY1C105ZFN	C 1UF, 16V	5	F1J1C1050006
C7166-73	TACCP1H105MT	C 1UF, 50V	8	F1L1H1050009
C7201-05	TCUY1C105ZFN	C 1UF, 16V	5	F1J1C1050006
C7206-13	TACCP1H105MT	C 1UF, 50V	8	F1L1H1050009
C7231-34	TCUY1C105ZFN	C 1UF, 16V	4	F1J1C1050006
C7235-40	TACCP1H105MT	C 1UF, 50V	6	F1L1H1050009
C7261-66	TCUY1C105ZFN	C 1UF, 16V	6	F1J1C1050006
C7267-74	TACCP1H105MT	C 1UF, 50V	8	F1L1H1050009
C7301	ECA2AHG101	E 100UF, 100V	1	
C7302	F1L1E4750004	C 4.7UF, 25V	1	
C7303	ECA2AHG101	E 100UF, 100V	1	
C7308	TACCP2E104MT	C 0.1UF, 250V	1	F1L2E1040002
C7311	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7312,13	F1L1E4750004	C 4.7UF, 25V	2	
C7314	TACCP2E104MT	C 0.1UF, 250V	1	F1L2E1040002
C7315-19	TACCP1H105MT	C 1UF, 50V	5	F1L1H1050009
C7320	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7321,22	F1L1E4750004	C 4.7UF, 25V	2	
C7327	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7328-31	ECJ2XB1H103K	C 0.01UF, K, 50V	4	
C7332	EEUFC1E221	E 220UF, 25V	1	
C7333	ECA2AHG101	E 100UF, 100V	1	
C7401 02	ECA2AHG101	E 100UF, 100V	1	
C7401	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7402 02	F1L1E4750004	C 4.7UF, 25V	1	
C7402	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7403 02	ECA2AHG101	E 100UF, 100V	1	
C7403,04	TCUY1C105ZFN	C 1UF, 16V	2	F1J1C1050006
C7408	TACCP2E104MT	C 0.1UF, 250V	1	F1L2E1040002
C7411	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7412,13	F1L1E4750004	C 4.7UF, 25V	2	
C7414	TACCP2E104MT	C 0.1UF, 250V	1	F1L2E1040002
C7415-19	TACCP1H105MT	C 1UF, 50V	5	F1L1H1050009
C7420	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7421,22	F1L1E4750004	C 4.7UF, 25V	2	
C7427	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7428-31	ECJ2XB1H103K	C 0.01UF, K, 50V	4	
C7432	EEUFC1E221	E 220UF, 25V	1	
C7433	ECA2AHG101	E 100UF, 100V	1	
C8001-04	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C8005	ECJ2YF1C225Z	C 22PF, J, 16V	1	
C8006	EEVHB1C470	E 47UF, 16V	1	
C8007-10	EEVHP0J470	E 47UF, 6.3V	4	
C8011,12	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C8013	ECJ3XB1C105K	C 1UF, K, 16V	1	
C8014	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8015	ECJ3XB1C105K	C 1UF, K, 16V	1	
C8016-20	ECJ2VF1C104Z	C 0.1UF, Z, 16V	5	
C8021	EEVHB1C470	E 47UF, 16V	1	
C8022-24	ECA1CM471	E 470UF, 16V	3	
C8026	ECJ3XB1C105K	C 1UF, K, 16V	1	
C8027	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8029	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C8030	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8031,32	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C8033	ECJ2XC1H272J	C 2700PF, J, 50V	1	
C8034	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C8035	ECJ2XC1H560J	C 56PF, J, 50V	1	
C8036	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C8037	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C8038	EEVHB1C470	E 47UF, 16V	1	
C8039	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8040	ECJ2YF1C225Z	C 22PF, J, 16V	1	
C8041	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8042	EEVHP1E220	E 22UF, 25V	1	
C8044	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C8045	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C8046,47	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C8048	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C8049	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8050-52	ECJ2VF1C104Z	C 0.1UF, Z, 16V	3	
C8053	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8054-60	ECJ2VF1C104Z	C 0.1UF, Z, 16V	7	
C8061,62	EEVHB0J101	E 100UF, 6.3V	2	EEVHB0J101P
C8063	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C8064	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026
C8067,68	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C8070	ECJ2XB1H471K	C 470PF, K, 50V	1	
C8071	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026
C8072-75	ECJ2VF1C104Z	C 0.1UF, Z, 16V	4	
C8076	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8077	TCUY1C475ZFM	C 437UF, 16V	1	F1K1C4750018
C8078-80	ECJ2XB1H103K	C 0.01UF, K, 50V	3	
C8081	ECJ3VB1C474K	C 0.47UF, K, 16V	1	
C8082	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C8083	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C8084,85	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C8086	ECJ2XC1H220J	C 22UF, J, 50V	1	
C8087	ECJ2XC1H120J	C 12PF, J, 50V	1	
C8088	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8089	ECJ2XC1H151J	C 150PF, J, 50V	1	
C8090,91	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C8092	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C8093	EEVHB1C470	E 47UF, 16V	1	
C8094	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C8095	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C8096	ECJ2XC1H101J	C 100PF, J, 50V	1	
C8098	ECJ2XC1H152J	C 1500PF, J, 50V	1	ECJ2VC1H152J
C8099	ECJ2XC1H151J	C 150PF, J, 50V	1	
C8101	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C8103	ECJ2YF1C225Z	C 22PF, J, 16V	1	
C8105	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C8106	EEVHB1C470	E 47UF, 16V	1	
C8107	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C8108	EEVHB1C470	E 47UF, 16V	1	
C8109,10	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C8111	EEVHB1C470	E 47UF, 16V	1	
C8114	EEVHP1E220	E 22UF, 25V	1	
C8116	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C8119	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C8124	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8126	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C8127	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C8129	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C8130	ECJ2XC1H030C	C 3PF, C, 50V	1	
C8131	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8132	ECJ3XB1C334K	C 0.33UF, K, 16V	1	
C8133	ECJ2XC1H221J	C 220PF, J, 50V	1	
C8134,35	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C8136	ECJ2XC1H030C	C 3PF, C, 50V	1	
C8137	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C8138	ECJ2VF1H473Z	C 0.047UF, Z, 50V	1	
C8140	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C8141	EEVHB1C470	E 47UF, 16V	1	
C8146	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8148-51	ECJ2VF1C104Z	C 0.1UF, Z, 16V	4	
C8152	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C8153	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C8155	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8156	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C8158	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C8160,61	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C8162	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8163	ECJ2XB1H471K	C 470PF, K, 50V	1	
C8164,65	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C8166	EEVHB1C470	E 47UF, 16V	1	
C8167,68	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C8169	EEVHB1C470	E 47UF, 16V	1	
C8170	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C8171	EEVHB1C470	E 47UF, 16V	1	
C8172	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C8173	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C8174,75	EEVHB1C470	E 47UF, 16V	2	
C8176	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C8177	ECJ3XB1C334K	C 0.33UF, K, 16V	1	
C8178	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C8179	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8184	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C8185	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8300	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9001-04	ECJ1VF1C104Z	C 0.1UF, Z, 16V	4	
C9005,06	EEVHB1C470	E 47UF, 16V	2	
C9007,08	EEVHB0G221	E 220UF, 4V	2	
C9009	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9011-13	EEVHP1E220	E 22UF, 25V	3	
C9014-16	ECJ1VF1C104Z	C 0.1UF, Z, 16V	3	
C9017	EEVHB1C470	E 47UF, 16V	1	
C9018,19	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9020	EEVHB1C470	E 47UF, 16V	1	
C9021-23	ECJ1VF1C104Z	C 0.1UF, Z, 16V	3	
C9024	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9026-36	ECJ3XF1C475Z	C 4.7UF, Z, 16V	11	
C9037-39	ECJ1XC1H030C	C 3PF, C, 50V	3	
C9040-42	ECJ3XF1C475Z	C 4.7UF, Z, 16V	3	
C9046,47	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C9049	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9050	ECJ1XC1H101J	C 100PF, J, 50V	1	
C9051,52	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9053	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C9054	ECJ1XF1H102Z	C 1000PF, Z, 50V	1	
C9055	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9056,57	EEVHB1C470	E 47UF, 16V	2	
C9058	ECJ1XF1H102Z	C 1000PF, Z, 50V	1	
C9059	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9060	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9061	ECJ1XC1H151J	C 150PF, J, 50V	1	
C9064-66	ECJ1XC1H101J	C 100PF, J, 50V	3	
C9067	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9068	ECJ1XC1H101J	C 100PF, J, 50V	1	
C9069	EEVHB1C470	E 47UF, 16V	1	
C9070	ECJ1XC1H101J	C 100PF, J, 50V	1	
C9071	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9072	EEVHB1A471	E 470UF, 10V	1	
C9073	ECJ1XC1H101J	C 100PF, J, 50V	1	
C9074	EEVHB0G221	E 220UF, 4V	1	
C9075	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9076	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9077	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9078	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9079	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9081	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9082	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9083	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9084	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C9085,86	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C9087,88	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9090,91	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C9092,93	ECJ1XC1H100D	C 10PF, D, 50V	2	
C9094-96	ECJ1VF1C104Z	C 0.1UF, Z, 16V	3	
C9097	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9098	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9099	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9100	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9101-06	ECJ1VF1C104Z	C 0.1UF, Z, 16V	6	
C9107	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9108	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9109	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9110,11	ECJ1XC1H330J	C 33PF, J, 50V	2	
C9112	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9114-18	ECJ1VF1C104Z	C 0.1UF, Z, 16V	5	
C9119,20	ECJ1XC1H100D	C 10PF, D, 50V	2	
C9121	EEVHB1C470	E 47UF, 16V	1	
C9122	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9123	ECJ1XC1H100D	C 10PF, D, 50V	1	
C9124-28	ECJ1VF1C104Z	C 0.1UF, Z, 16V	5	
C9133-42	ECJ1VF1C104Z	C 0.1UF, Z, 16V	10	
C9147,48	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9149,50	TCUY0J685MBM	C 6.8UF, 6.3V	2	F1K0J685A003
C9151-56	ECJ1VF1C104Z	C 0.1UF, Z, 16V	6	
C9158-62	ECJ1VF1C104Z	C 0.1UF, Z, 16V	5	
C9163	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9164	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9165	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9166-80	ECJ1VF1C104Z	C 0.1UF, Z, 16V	15	
C9182	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9184	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9187,88	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9190	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9192	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9193,94	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C9195,96	TCUY1C105ZFN	C 1UF, 16V	2	F1J1C1050006
C9197-00	ECJ1VF1C104Z	C 0.1UF, Z, 16V	4	
C9201,02	TCUY1C105ZFN	C 1UF, 16V	2	F1J1C1050006
C9203	TCUY1C105KBM	C 1UF, 16V	1	F1K1C105A026
C9204,05	ECJ2VB1C104K	C 0.1UF, K, 16V	2	
C9206	TCUY1C105KBM	C 1UF, 16V	1	F1K1C105A026
C9207	ECJ2VB1E563K	C 0.056UF, K, 25V	1	
C9208	EEVHB1C470	E 47UF, 16V	1	
C9210	EEVHB1C470	E 47UF, 16V	1	
C9211	ECJ2VB1E563K	C 0.056UF, K, 25V	1	
C9212,13	TCUY0J685MBM	C 6.8UF, 6.3V	2	F1K0J685A003
C9215,16	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9217,18	TCUY0J685MBM	C 6.8UF, 6.3V	2	F1K0J685A003
C9219,20	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9221	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9222-29	ECJ1VF1C104Z	C 0.1UF, Z, 16V	8	
C9230	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9232	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9233	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9236-40	ECJ1VF1C104Z	C 0.1UF, Z, 16V	5	
C9243,44	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9246	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9248	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9251	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9252	EEVHB0G221	E 220UF, 4V	1	
C9255,56	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9257	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C9258,59	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9260	EEVHB0G221	E 220UF, 4V	1	
C9261	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9262	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C9263-66	ECJ1VF1C104Z	C 0.1UF, Z, 16V	4	
C9267	EEVHB0G221	E 220UF, 4V	1	
C9268	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9269	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C9270	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9272-90	ECJ1VF1C104Z	C 0.1UF, Z, 16V	19	
C9291,92	TCUY0J685MBM	C 6.8UF, 6.3V	2	F1K0J685A003
C9293-96	ECJ1VF1C104Z	C 0.1UF, Z, 16V	4	
C9297,98	ECJ1XC1H101J	C 100PF, J, 50V	2	
C9299,00	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9301,02	TCUY0J685MBM	C 6.8UF, 6.3V	2	F1K0J685A003
C9303-30	ECJ1VF1C104Z	C 0.1UF, Z, 16V	28	
C9331	ECJ1XF1H102Z	C 1000PF, Z, 50V	1	
C9333,34	ECJ1XC1H100D	C 10PF, D, 50V	2	
C9335	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9336	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C9338	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9339	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9340-51	ECJ1VF1C104Z	C 0.1UF, Z, 16V	12	
C9352	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9353,54	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9355	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9356-61	ECJ1VF1C104Z	C 0.1UF, Z, 16V	6	
C9362-65	TCUY0J685MBM	C 6.8UF, 6.3V	4	F1K0J685A003
C9366-73	ECJ1VF1C104Z	C 0.1UF, Z, 16V	8	
C9374	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9375-80	ECJ1VF1C104Z	C 0.1UF, Z, 16V	6	
C9381	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9382-91	ECJ1VF1C104Z	C 0.1UF, Z, 16V	10	
C9392	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9393	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9394	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9395-97	ECJ1VF1C104Z	C 0.1UF, Z, 16V	3	
C9398	ECJ1XF1H102Z	C 1000PF, Z, 50V	1	
C9400,01	ECJ1XC1H100D	C 10PF, D, 50V	2	
C9402	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9403	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C9405	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9406	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9407-18	ECJ1VF1C104Z	C 0.1UF, Z, 16V	12	
C9419	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9420,21	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9422	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9423-28	ECJ1VF1C104Z	C 0.1UF, Z, 16V	6	
C9429-32	TCUY0J685MBM	C 6.8UF, 6.3V	4	F1K0J685A003
C9433-41	ECJ1VF1C104Z	C 0.1UF, Z, 16V	9	
C9442,43	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C9444-59	ECJ1VF1C104Z	C 0.1UF, Z, 16V	16	
C9460	ECJ1XC1H150J	C 15PF, J, 50V	1	
C9462	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9464	EEVHB1C470	E 47UF, 16V	1	
C9465	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9470	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9471	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9472	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9473	EEVHB1C470	E 47UF, 16V	1	
C9474	ECJ2VB1E563K	C 0.056UF, K, 25V	1	
C9475	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C9476	TCUY1C105KBM	C 1UF, 16V	1	F1K1C105A026
C9477,78	TCUY1C105ZFN	C 1UF, 16V	2	F1J1C1050006
C9479	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9480	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9482	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9483	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9484	EEVHB0G221	E 220UF, 4V	1	
C9485	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9489,90	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9491	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9500	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9501	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9502	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9503	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9504-06	EEVHB1A471	E 470UF, 10V	3	
C9522	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9525	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9530-36	ECJ1VF1C104Z	C 0.1UF, Z, 16V	7	
C9540-46	ECJ1VF1C104Z	C 0.1UF, Z, 16V	7	
C9558,59	ECJ1XC1H150J	C 15PF, J, 50V	2	
C9560	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9561-63	ECJ1VF1H103Z	C 0.01UF, Z, 50V	3	
C9564-66	ECJ2XB1H103K	C 0.01UF, K, 50V	3	
C9567-69	TCUY1C105KBM	C 1UF, 16V	3	F1K1C105A026
C9570-73	TCUY1C105ZFN	C 1UF, 16V	4	F1J1C1050006
C9574-76	ECJ3XF1C475Z	C 4.7UF, Z, 16V	3	
C9577-79	ECJ1VF1C104Z	C 0.1UF, Z, 16V	3	
C9600	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9601	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9602	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9603	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9718	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9736	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9910	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9920	ECJ1XC1H100D	C 10PF, D, 50V	1	
C9922	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9923	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9926	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9932	ECJ1XC1H100D	C 10PF, D, 50V	1	
C9933	ECJ1XC1H471J	C 470PF, J, 50V	1	
CA1-11	K1MN80B00001	1P CONNECTOR	11	
CB1-11	K1MN80B00001	1P CONNECTOR	11	
D1	TJSF31370	70P CONNECTOR	1	K1KB70A00009
D2	TJSF31010	CONNECTOR	1	K1KA10A00170
D3	TJSF12506	6P CONNECTOR	1	K1KA06A00149
D4	TJSF12608	8P CONNECTOR	1	K1KA08A00138
D5	TJSF31012	12P CONNECTOR	1	
D7	TJSF33909	CONNECTOR	1	K1FA109E0001
D20	K1KA10A00266	CONNECTOR	1	
D21	K1KA11A00078	CONNECTOR	1	
D31-36	K1MN80B00001	1P CONNECTOR	6	
D081	LNJ107W5PRW	LED	1	
D082	MA8056M	ZENER DIODE	1	MAZ80560M
D400,01	EG01	DIODE	2	
D402	RBV-2506	DIODE	1	
D403	MA4300H	ZENER DIODE	1	MAZ43000H
D404	D1NL20UV70	DIODE	1	
D405,06	MA700A	DIODE	2	MA2C700A
D407	FMLG26S	DIODE	1	
D408	MA4300H	ZENER DIODE	1	MAZ43000H
D409,10	D1NL20UV70	DIODE	2	
D411	MA165	DIODE	1	MA2C165
D412-14	D1NL20UV70	DIODE	3	
D415	RK34	DIODE	1	
D416-19	D1NL20UV70	DIODE	4	
D420	ERZV10V621P2	VARISTOR	1	
D421	S1WBA80	DIODE	1	B0EBKT000003
D423,24	AK04	DIODE	2	B0JAMC000003
D425	ERA22-10	DIODE	1	B0EAEV000002
D426	MA165	DIODE	1	MA2C165
D427	RC3B2LFU1	DIODE	1	
D428	D1NL20UV70	DIODE	1	
D429	MA2120A	ZENER DIODE	1	
D430,31	PC123FY2	PHOTO COUPLER	2	B3PAA0000012 ⚠
D432	FMLG26S	DIODE	1	
D433	TVSES1C	DIODE	1	B0HAGV000006
D434	RK34	DIODE	1	
D435	MA167	DIODE	1	MA2C167
D436	MA4300H	ZENER DIODE	1	MAZ43000H
D437,38	FMLG26S	DIODE	2	
D439,40	EU02	DIODE	2	
D441,42	ERC91-02	DIODE	2	B0HAPM000003
D443,44	FML-G12S	DIODE	2	
D445	MA4300H	ZENER DIODE	1	MAZ43000H
D446	MA4051M	ZENER DIODE	1	MAZ40510M
D447	D1NL20UV70	DIODE	1	
D450	D1NL40V70	DIODE	1	B0HALP000002
D451-54	FMLG16S	DIODE	4	B0EANQ000001
D455	MA165	DIODE	1	MA2C165
D459	MA700A	DIODE	1	MA2C700A
D460	MA165	DIODE	1	MA2C165
D461	D1NL20UV70	DIODE	1	
D462	RK34	DIODE	1	
D464-66	D1NL40V70	DIODE	3	B0HALP000002
D467-70	MA165	DIODE	4	MA2C165
D471	MA167	DIODE	1	MA2C167
D472	D1NL20UV70	DIODE	1	
D473	RK34	DIODE	1	
D474	MA167	DIODE	1	MA2C167

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D475	D1NL20UV70	DIODE	1	
D476,77	AK04	DIODE	2	B0JAMC000003
D478	MA167	DIODE	1	MA2C167
D479	MA4056M	ZENER DIODE	1	MAZ40560M
D482	D1NL40V70	DIODE	1	B0HALP000002
D483	MA165	DIODE	1	MA2C165
D487	EG01A	DIODE	1	B0HAGR000006
D489	D1NL40V70	DIODE	1	B0HALP000002
D500	ERA15-02	DIODE	1	B0EAKM000016
D504	MA4047H	ZENER DIODE	1	MAZ40470H
D505	MA4082L	ZENER DIODE	1	MAZ40820L
D506	MA4043H	ZENER DIODE	1	MAZ40430H
D507	TMPG10G3	DIODE	1	B0BA01000046
D508	MA4043H	ZENER DIODE	1	MAZ40430H
D509	MA4068H	ZENER DIODE	1	MAZ40680H
D510,11	TMPG10G3	DIODE	2	B0BA01000046
D512	D1NL20UV70	DIODE	1	
D513	MA700A	DIODE	1	MA2C700A
D514	MA4150M	ZENER DIODE	1	MAZ41500M
D515	MA165	DIODE	1	MA2C165
D601	CR02AM-4	THYRISTOR	1	B2AAAL000003
D602	MA3082M	ZENER DIODE	1	MAZ30820M
D603	MA152K	DIODE	1	MA3X152K
D604	PC123FY2	PHOTO COUPLER	1	B3PAA0000012 ⚠
D606	PC123FY2	PHOTO COUPLER	1	B3PAA0000012 ⚠
D607	MA152K	DIODE	1	MA3X152K
D608	M1FS4	DIODE	1	
D635	MA3062M	ZENER DIODE	1	MAZ30620M
D650	MA3140M	ZENER DIODE	1	MAZ31400M
D651	MA152K	DIODE	1	MA3X152K
D654	M1FS4	DIODE	1	
D655	MA3068M	ZENER DIODE	1	MAZ30680M
D656	M1FS4	DIODE	1	
D657,58	D1FL40F4063	DIODE	2	B0ECHP000001
D659	MA3068M	ZENER DIODE	1	MAZ30680M
D730	MA152K	DIODE	1	MA3X152K
D731-33	D1FL40F4063	DIODE	3	B0ECHP000001
D734	MA152K	DIODE	1	MA3X152K
D735	MA3300L	ZENER DIODE	1	MAZ33000L
D736	D1FL40F4063	DIODE	1	B0ECHP000001
D737	M1FS4	DIODE	1	
D738	D1FL40F4063	DIODE	1	B0ECHP000001
D739	MA3300L	ZENER DIODE	1	MAZ33000L
D740	D1FL40F4063	DIODE	1	B0ECHP000001
D741	MA3039H	ZENER DIODE	1	MAZ30390H
D742	MA152K	DIODE	1	MA3X152K
D750	MA3047H	ZENER DIODE	1	
D751,52	MA152K	DIODE	2	MA3X152K
D753	MA3033L	ZENER DIODE	1	MAZ30330L
D755	D1FL40F4063	DIODE	1	B0ECHP000001
D756	MA152K	DIODE	1	MA3X152K
D775,76	MA152K	DIODE	2	MA3X152K
D777	MA3039H	ZENER DIODE	1	MAZ30390H
D900	ERZV10V621P2	VARISTOR	1	
D921	D1NL20UV70	DIODE	1	
D922,23	TVSA81004	DIODE	2	B0JAME000009
D924	D1NL20UV70	DIODE	1	
D925,26	MA4082M	ZENER DIODE	2	MAZ40820M
D928	TMPG10G3	DIODE	1	B0BA01000046
D935	EG01C	DIODE	1	B0HAGV000001
D936	TVSES1C	DIODE	1	B0HAGV000006
D941	D1NL20UV70	DIODE	1	
D942	MA700A	DIODE	1	MA2C700A
D943-46	MA167	DIODE	4	MA2C167
D947	D1NL20UV70	DIODE	1	
D957	D1NL40V70	DIODE	1	B0HALP000002
D981	M1FS4	DIODE	1	
D982	MA152K	DIODE	1	MA3X152K
D2301-04	M1FS4	DIODE	4	
D2305,06	RU4AM	DIODE	2	
D2307	MA152K	DIODE	1	MA3X152K

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D2308	MA152WK	DIODE	1	MA3X152E
D2403,04	MA152K	DIODE	2	MA3X152K
D2405	MA152WA	DIODE	1	MA3X152D
D3501-04	MA3056M	ZENER DIODE	4	MAZ30560M
D3505-10	MA153	DIODE	6	MA3X153
D6401,02	MA8056H	ZENER DIODE	2	
D6411,12	MA8056H	ZENER DIODE	2	
D6461,62	MA8330M	ZENER DIODE	2	
D6463	LNJ206R5ARA	LED	1	
D6464,65	D1FL20U	DIODE	2	
D6466-73	M1FS4	DIODE	8	
D6474	MA8330M	ZENER DIODE	1	
D6500-08	HCPLM611#500	DIODE	9	K7GBZEE00002
D6509-13	MA111	DIODE	5	MA2J111
D6514	D1FL40F4063	DIODE	1	B0ECHP000001
D6516	MA111	DIODE	1	MA2J111
D6521	D1FL40F4063	DIODE	1	B0ECHP000001
D6522,23	MA111	DIODE	2	MA2J111
D6524,25	MA8051L	ZENER DIODE	2	
D6526,27	MA111	DIODE	2	MA2J111
D6528	D1FL40F4063	DIODE	1	B0ECHP000001
D6531,32	MA111	DIODE	2	MA2J111
D6533	EC8FS6	DIODE	1	
D6534,35	MA8330M	ZENER DIODE	2	
D6536	MA8051L	ZENER DIODE	1	
D6537-39	MA111	DIODE	3	MA2J111
D6541-43	MA8330M	ZENER DIODE	3	
D6544,45	MA111	DIODE	2	MA2J111
D6546,47	MA8051L	ZENER DIODE	2	
D6548	MA111	DIODE	1	MA2J111
D6551-53	D1FL40F4063	DIODE	3	B0ECHP000001
D6554	EC8FS6	DIODE	1	
D6555	M1FS4	DIODE	1	
D6556,57	D1FL40F4063	DIODE	2	B0ECHP000001
D6558	M1FS4	DIODE	1	
D6559	EC8FS6	DIODE	1	
D6560	MA111	DIODE	1	MA2J111
D6561	M1FS4	DIODE	1	
D6564-66	MA8330M	ZENER DIODE	3	
D6567,68	MA152WK	DIODE	2	MA3X152E
D6569	D1FL40F4063	DIODE	1	B0ECHP000001
D6611-16	B0HBSN000002	DIODE	6	
D6617-19	SF20LC30F10	DIODE	3	
D6620	MA111	DIODE	1	MA2J111
D6621-26	B0HBSN000002	DIODE	6	
D6627-29	SF20LC30F10	DIODE	3	
D6630	D1FL20U	DIODE	1	
D6631	D1FL40F4063	DIODE	1	B0ECHP000001
D6632	D1FL20U	DIODE	1	
D6633	SF20LC30F10	DIODE	1	
D6634-36	D1FL40F4063	DIODE	3	B0ECHP000001
D6638-40	SF20LC30F10	DIODE	3	
D6641-48	M1FS4	DIODE	8	
D6651-60	M1FS4	DIODE	10	
D6711	D1FL40F4063	DIODE	1	B0ECHP000001
D6712	D1FL20U	DIODE	1	
D6713	SF20LC30F10	DIODE	1	
D6714-25	B0HBSN000002	DIODE	12	
D6726-31	SF20LC30F10	DIODE	6	
D6737	D1FL40F4063	DIODE	1	B0ECHP000001
D6738,39	MA8330M	ZENER DIODE	2	
D6740	LNJ206R5ARA	LED	1	
D6741-48	M1FS4	DIODE	8	
D6751,52	D1FL40F4063	DIODE	2	B0ECHP000001
D6753,54	M1FS4	DIODE	2	
D6770	D1FL20U	DIODE	1	
D6771	TMPG10G3	DIODE	1	B0BA01000046
D6787,88	D1FL40F4063	DIODE	2	B0ECHP000001
D6793,94	MA152WK	DIODE	2	MA3X152E
D6795	D1FL40F4063	DIODE	1	B0ECHP000001
D6796-98	SF20LC30F10	DIODE	3	
D7101-04	D1FL20U	DIODE	4	
D7131-33	D1FL20U	DIODE	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D7161-64	D1FL20U	DIODE	4	
D7201-04	D1FL20U	DIODE	4	
D7231-33	D1FL20U	DIODE	3	
D7261-64	D1FL20U	DIODE	4	
D7302	D1FL20U	DIODE	1	
D7311	D1FL20U	DIODE	1	
D7312,13	M1FS4	DIODE	2	
D7314-17	DE5LC20UF61	DIODE	4	
D7318	MA111	DIODE	1	MA2J111
D7319	MA8051L	ZENER DIODE	1	
D7320,21	DE5LC20UF61	DIODE	2	
D7322,23	MA152WK	DIODE	2	MA3X152E
D7324	M1FS4	DIODE	1	
D7326,27	M1FS4	DIODE	2	
D7402	D1FL20U	DIODE	1	
D7411	D1FL20U	DIODE	1	
D7412,13	M1FS4	DIODE	2	
D7414-17	B0HDSN000002	DIODE	4	
D7418	MA111	DIODE	1	MA2J111
D7419	MA8051L	ZENER DIODE	1	
D7420,21	B0HDSN000002	DIODE	2	
D7422,23	MA152WK	DIODE	2	MA3X152E
D7424	M1FS4	DIODE	1	
D7426,27	M1FS4	DIODE	2	
D8005	LNJ206R5ARA	LED	1	
D8016,17	MA152K	DIODE	2	MA3X152K
D9001,02	MA3036H	ZENER DIODE	2	MAZ30360H
D9003-09	MA3062M	ZENER DIODE	7	MAZ30620M
D9010,11	MA152K	DIODE	2	MA3X152K
D9012	MA3062M	ZENER DIODE	1	MAZ30620M
D9014	MA3062M	ZENER DIODE	1	MAZ30620M
DG1	TJSF31370	70P CONNECTOR	1	K1KB70A00009
DG4	TJS3A9650	4P CONNECTOR	1	K1KA04A00194
DG5	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
DG6	TJS1A8840	8P CONNECTOR	1	K1KA08A00221
DG17	TJS1A8870	11P CONNECTOR	1	K1KA11A00073
DG98	TJS1A8100	PHONO PIN (4P)	1	K1KA04B00056
DG99	TJS1A8130	PHONO PIN (7P)	1	K1KA07B00026
F900-1.	EYF-52BC	FUSE HOLDER	1	
F1	TJS3A9630	CONNECTOR	1	K1KA03A00183
F900-2.	EYF-52BC	FUSE HOLDER	1	
F9	TJS3A9630	CONNECTOR	1	K1KA03A00183
F901-1.,2.	EYF-52BC	FUSE HOLDER	2	
H37	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
IC400	MIP0210SY1TV	IC (LOGIC)	1	
IC401	AN7715F	LINEAR IC	1	
IC403	UPC2260V	LINEAR IC	1	C0DAFHE00001
IC406	UPC1093J	LINEAR IC	1	C0DAEMC00002
IC407	SI-8050S	HYBRID IC	1	C0DAAHH00013
IC410	UPC1093J	LINEAR IC	1	C0DAEMC00002
IC411	PQ30RV21A	LINEAR IC	1	C0DAEZH00008
IC412	C0DAAKH00004	IC	1	
IC421	PC123FY2	PHOTO COUPLER	1	B3PAA0000012
IC600	UC3715N	IC	1	C0DACHA00002
IC601	MC33025P	IC	1	C0DAAKE00001
IC602	UC3715N	IC	1	C0DACHA00002
IC635	UPC1093J	LINEAR IC	1	C0DAEMC00002
IC650	AN8026	LINEAR IC	1	
IC735	MC33262P	IC	1	C0DAZZZ00013
IC736	AN6912	LINEAR IC	1	
IC737	AN78L05	LINEAR IC	1	
IC750	AN6912	LINEAR IC	1	
IC751	TLP621GR	PHOTO COUPLER	1	B3PAA0000150
IC775	AN6912	LINEAR IC	1	
IC921	AN8026	LINEAR IC	1	
IC931	UPC1093J	LINEAR IC	1	C0DAEMC00002
IC932	AN78M15	LINEAR IC	1	
IC934	UPC1093J	LINEAR IC	1	C0DAEMC00002
IC981	C0DBAHH00013	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC2301,02	TDA7480	LINEAR IC	2	C1AA00000561
IC2304	PQ09SZ1T	IC	1	C0CBAHG00005
IC2401	BH3866AS	LINEAR IC	1	C1BA00000315
IC2402	NJM2904M	LINEAR IC	1	C0ABBA000021
IC3502	TVRJ541	ROM IC	1	C3EBCC000020
IC3503	TVRJ400	ROM IC	1	
IC3504	MC14052BF	MOS IC (CMOS GATE ARRLY)	1	C0JBAR000021
IC3505	M52055FP	LINEAR IC	1	C1AB00000734
IC3506	MC14052BF	MOS IC (CMOS GATE ARRLY)	1	C0JBAR000021
IC3507	CXA1315M	LINEAR IC	1	C1AB00000440
IC3508	M52055FP	LINEAR IC	1	C1AB00000734
IC3509	TVRJ475	ROM IC	1	C3EAEC000014
IC3511	TVRJ407	ROM IC	1	
IC3513	TC74HCU04AF	MOS IC (CMOS S/LOGIC)	1	C0JBAB000159
IC3514	TC7SH32F	IC	1	C0JBAE000191
IC3515	MAX202CSE	IC	1	C0ZBZ0000205
IC6401-06	C0HBC0000005	IC	6	
IC6411-16	C0HBC0000005	IC	6	
IC6501-04	TC74HC02AF	IC	4	C0JBAD000054
IC6505,06	TC74HC14AF	IC	2	C0JBAB000155
IC6507-09	AN78L05M	LINEAR IC	3	
IC6510	AN1431M	LINEAR IC	1	
IC6511	M63990FP	LINEAR IC	1	
IC6512	AN1431M	LINEAR IC	1	
IC6521	M63990FP	LINEAR IC	1	
IC6531	M63990FP	LINEAR IC	1	
IC6541	M63990FP	LINEAR IC	1	
IC6601-04	M63990FP	LINEAR IC	4	
IC6605,06	TC74HC244AF	IC	2	
IC6607	NJM2903M	INTEGRATED CIRCUIT	1	C0BBBA000019
IC6608	AN1431M	LINEAR IC	1	
IC6701	TC74HC244AF	IC	1	
IC6702	TC74HC02AF	IC	1	C0JBAD000054
IC6703-07	M63990FP	LINEAR IC	5	
IC6709	AN1431M	LINEAR IC	1	
IC6712	NJM2903M	INTEGRATED CIRCUIT	1	C0BBBA000019
IC7101	TC74HC244AF	IC	1	
IC7131	TC74HC244AF	IC	1	
IC7132	DS1621S	IC	1	C9ZB00000192
IC7161	TC74HC244AF	IC	1	
IC7201	TC74HC244AF	IC	1	
IC7231	TC74HC244AF	IC	1	
IC7261	TC74HC244AF	IC	1	
IC7301	TC74HC244AF	IC	1	
IC7302,03	M63990FP	LINEAR IC	2	
IC7304	NJM2903M	INTEGRATED CIRCUIT	1	C0BBBA000019
IC7400,01	TC74ACT244F	INTEGRATED CIRCUIT	2	C0JBAZ000448
IC7401 02	TC74HC244AF	IC	1	
IC7402 02	M63990FP	LINEAR IC	1	
IC7402	TC74ACT244F	INTEGRATED CIRCUIT	1	C0JBAZ000448
IC7403 02	M63990FP	LINEAR IC	1	
IC7403	TC74ACT244F	INTEGRATED CIRCUIT	1	C0JBAZ000448
IC7404	NJM2903M	INTEGRATED CIRCUIT	1	C0BBBA000019
IC8001-04	AD8055ART	IC	4	C0ABGB000001
IC8005	TC4W53F	MOS IC (CMOS S/LOGIC)	1	C0JBAR000224
IC8006	MM1065ZMR	LINEAR IC	1	C0CBABB00029
IC8007	C1AB00000921	LINEAR IC	1	
IC8008	M514265C6TSK	INTEGRATED CIRCUIT	1	C3ABKG000029
IC8009	CXA1211M	LINEAR IC	1	C1AB00000013
IC8010	M52036SP	LINEAR IC	1	C1AA00000392
IC8011	TC74HC14AF	IC	1	C0JBAB000155
IC8012	PST9128NR	IC (LOGIC)	1	C0EBE0000066
IC8014	M52065FP	LINEAR IC	1	C1AB00000739

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC8015	CXA1211M	LINEAR IC	1	C1AB00000013
IC8016	TC74LCX244F	MOS IC (CMOS S/LOGIC)	1	C0JBAZ001234
IC8017	TC74LCX74F	MOS IC (CMOS S/LOGIC)	1	
IC8018	VPC3215CB8TP	IC	1	C1AB00001066
IC8019	PST9142NR	IC (LOGIC)	1	C0EBH0000095
IC8020	JLC1562BF	MOS IC (MICON LSI)	1	C0JBAZ001265
IC8021	AN78L05M	LINEAR IC	1	
IC8023	TC74LCX244F	MOS IC (CMOS S/LOGIC)	1	C0JBAZ001234
IC8025	TC74LCX244F	MOS IC (CMOS S/LOGIC)	1	C0JBAZ001234
IC8027,28	TC74LCX244F	MOS IC (CMOS S/LOGIC)	2	C0JBAZ001234
IC8029	PQ09SZ1T	IC	1	C0CBAHG00005
IC8030	PQ12SZ1T	IC	1	C0CBAKG00003
IC8033	TC74LCX244F	MOS IC (CMOS S/LOGIC)	1	C0JBAZ001234
IC9000-02	AD8055ART	IC	3	C0ABGB000001
IC9003	PQ09SZ1T	IC	1	C0CBAHG00005
IC9004-06	M52055FP	LINEAR IC	3	C1AB00000734
IC9007-09	C0FBAD000053	IC	3	
IC9010	PQ09SZ1T	IC	1	C0CBAHG00005
IC9012	CXA1315M	LINEAR IC	1	C1AB00000440
IC9014	PQ07VZ012ZP	IC	1	C0DBEZG00004
IC9015-17	C0JBAF000405	IC	3	
IC9018	PQ07VZ012ZP	IC	1	C0DBEZG00004
IC9019-21	C0ABZA000031	IC	3	
IC9022	PQ09SZ1T	IC	1	C0CBAHG00005
IC9023	PQ12SZ1T	IC	1	C0CBAKG00003
IC9024	PQ07VZ012ZP	IC	1	C0DBEZG00004
IC9036	TC74LCX244F	MOS IC (CMOS S/LOGIC)	1	C0JBAZ001234
IC9047,48	TC74LCX244F	MOS IC (CMOS S/LOGIC)	2	C0JBAZ001234
IC9057	C0ZBZ0000268	IC	1	
IC9061	TVSA0510	IC	1	C3ABMJ000002
IC9093	TC74LCX244F	MOS IC (CMOS S/LOGIC)	1	C0JBAZ001234
IC9200,01	TVSA0510	IC	2	C3ABMJ000002
IC9202	CXA1315M	LINEAR IC	1	C1AB00000440
IC9204	MN84503	MOS IC	1	
IC9206	TC74LCX244F	MOS IC (CMOS S/LOGIC)	1	C0JBAZ001234
IC9207	TC74ACT244F	INTEGRATED CIRCUIT	1	C0JBAZ000448
IC9209	TVSA0510	IC	1	C3ABMJ000002
IC9210	C0JBAR000327	IC	1	
IC9211	TLC2932IPWL	LINEAR IC	1	C0ABFA000011
IC9212	TLC2933IPWL	INTEGRATED CIRCUIT	1	C0ABFA000012
IC9213,14	AN78L05M	LINEAR IC	2	
IC9215	TLC2933IPWL	INTEGRATED CIRCUIT	1	C0ABFA000012
IC9217	AN78L05M	LINEAR IC	1	
IC9223	TC74HC14AF	IC	1	C0JBAB000155
IC9225,26	TVRJ488	ROM IC	2	
IC9250,51	TVSA0510	IC	2	C3ABMJ000002
IC9254	MN84503	MOS IC	1	
IC9259	TVSA0510	IC	1	C3ABMJ000002
IC9302	MN82860	MOS IC	1	
IC9352	MN82860	MOS IC	1	
IC9400	MN84502	MOS IC	1	
IC9401	TVRJ481-1	ROM IC	1	C3FBKD000104
IC9402,03	C3ABPJ000008	IC	2	
IC9450	MN84502	MOS IC	1	
IC9451	TVRJ495-1	ROM IC	1	C3FBKD000104
IC9452,53	C3ABPJ000008	IC	2	
IC9501	MN7E007P5B	MOS IC	1	
IC9502,03	TVSA0510	IC	2	C3ABMJ000002
IC9504,05	TC74ACT244F	INTEGRATED CIRCUIT	2	C0JBAZ000448
IC9506,07	TVSA0510	IC	2	C3ABMJ000002
IC9508,09	MN7D029P5A	MOS IC	2	
IC9510,11	TC74ACT244F	INTEGRATED CIRCUIT	2	C0JBAZ000448
IC9512,13	MN7D029P5A	MOS IC	2	
IC9516	C0ZBZ0000268	IC	1	
IC9520,21	TC74ACT244F	INTEGRATED CIRCUIT	2	C0JBAZ000448
IC9551	MN7E007P5B	MOS IC	1	
IC9552	TVSA0510	IC	1	C3ABMJ000002
IC9554,55	TC74ACT244F	INTEGRATED CIRCUIT	2	C0JBAZ000448
IC9556,57	TVSA0510	IC	2	C3ABMJ000002
IC9558,59	MN7D029P5A	MOS IC	2	
IC9560,61	TC74ACT244F	INTEGRATED CIRCUIT	2	C0JBAZ000448
IC9562,63	MN7D029P5A	MOS IC	2	
IC9564,65	TC74ACT244F	INTEGRATED CIRCUIT	2	C0JBAZ000448
IC9701	MN102L230	IC	1	
IC9702	HM538123BJ8Z	IC	1	C3HAHC000006
IC9703	MN1382R	MOS IC (MICON LSI)	1	MN1382-R
IC9704	TC74ACT244F	INTEGRATED CIRCUIT	1	C0JBAZ000448
IC9705	TVRJ482-1	ROM IC	1	C3FBLD000026
IC9706	TVRJ543	ROM IC	1	C3EBGC000018
IC9707	C0JBAF000405	IC	1	
IC9900	C1ZBZ0001837	IC	1	
IC9901S	TJSB01108	IC SOCKET	1	
IC9901	TVRJ483-1	ROM IC	1	
IC9902	TC74HCU04AF	MOS IC (CMOS S/LOGIC)	1	C0JBAB000159
IC9903-06	TC74ACT244F	INTEGRATED CIRCUIT	4	C0JBAZ000448
IC9907	C0ZBZ0000423	IC	1	
IC9908	PQ07VZ012ZP	IC	1	C0DBEZG00004
IC9909	PST9128NR	IC (LOGIC)	1	C0EBE0000066
JK3501	TJSF41260	60P CONNECTOR	1	K1KB60B00007
JK3502	TJSF41240	CONNECTOR	1	
JK3504	K1QBB5AB0003	CONNECTOR	1	
JK3505,06	K2HA202B0025	JACK	2	
JK3507	K1QBB1AB0008	CONNECTOR	1	
JK3508	K1CB104B0031	CONNECTOR	1	
JK3509	K1FB109B0058	CONNECTOR	1	
JK3511	TJS8A9880	CONNECTOR	1	K1FB115B0034
JK3512	K1FB126B0014	CONNECTOR	1	
JK3513	K2HC103B0105	JACK	1	
JK8001-03	K1ZZ00001158	CONNECTOR	3	
JK8500	K4BC02B00013	TERMINAL	1	
JK8501	TJSF41160	60P CONNECTOR	1	K1KA60B00042
JK8502	TJSF41140	CONNECTOR	1	
JK9001-03	K1ZZ00001158	CONNECTOR	3	
JS401	ERDS2TC0	C 0 OHM, 1/4W	1	
JS2301	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JS8001-06	ERJ6GEY0R00	M 0 OHM,J,1/10W	6	
JS8019	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
JS8024	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
L401,02	TLPF102	LINE FILTER	2	G4D5A0000007 ⚠
L407	ELEXH100KA	PEAKING COIL	1	
L411	G0ZZ00001986	COIL	1	
L412	TLPF075	CHOKE COIL	1	G0A221G00004
L423,24	EXCELSA39	BEAD CHOKE	2	
L426	EXCELSA39	BEAD CHOKE	1	
L428	TLPF075	CHOKE COIL	1	G0A221G00004
L430	EXCELSA39	BEAD CHOKE	1	
L431	EXCELDR25C	BEAD CHOKE	1	
L433	ERD25V0R00	C 0 OHM, 1/4W	1	
L434	G0ZZ00001987	COIL	1	
L435	EXCELDR25C	BEAD CHOKE	1	
L901	G0A101L00002	LINE FILTER	1	⚠
L902,03	G0BYYYL00001	LINE FILTER	2	⚠
L981	ELC10D180	LC FILTER	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L2301,02	ELC10E680	LC FILTER	2	
L2303,04	EXCELDR35C	BEAD CHOKE	2	
L2306	ELJPA100KB	CHIP INDUCTOR	1	
L3501	TLK20LFA224M	EMI FILTER	1	J0HABB000004
L3503-06	TLK212T256AL	EMI FILTER	4	
L3507-09	TLK20LFA224M	EMI FILTER	3	J0HABB000004
L3510-13	TLK212T256AL	EMI FILTER	4	
L3516-18	TLK20LFA224M	EMI FILTER	3	J0HABB000004
L3519-21	TLK212T256AL	EMI FILTER	3	
L3522	ELJPA100KB	CHIP INDUCTOR	1	
L3524-27	ELJPA100KB	CHIP INDUCTOR	4	
L3529-36	ELJPA100KB	CHIP INDUCTOR	8	
L6601	TSKA158	BEAD CORE	1	G0ZZ00001935
L6602	TLPF075	CHOKE COIL	1	G0A221G00004
L6604,05	TSKA158	BEAD CORE	2	G0ZZ00001935
L6607-09	TSKA158	BEAD CORE	3	G0ZZ00001935
L6611-21	TALL13N1R8MB	INDUCTION COIL	11	G0A1R8J00001
L6622-24	TSKA158	BEAD CORE	3	G0ZZ00001935
L6631-66	TSKA158	BEAD CORE	36	G0ZZ00001935
L6667	TSKA122	CHIP INDUCTOR	1	J0JJC0000011
L6668	TSKA158	BEAD CORE	1	G0ZZ00001935
L6670	TSKA158	BEAD CORE	1	G0ZZ00001935
L6671-73	TSKA122	CHIP INDUCTOR	3	J0JJC0000011
L6701	TSKA158	BEAD CORE	1	G0ZZ00001935
L6704	TLPF075	CHOKE COIL	1	G0A221G00004
L6707-42	TSKA158	BEAD CORE	36	G0ZZ00001935
L6743-53	TALL13N1R8MB	INDUCTION COIL	11	G0A1R8J00001
L6761,62	TSKA122	CHIP INDUCTOR	2	J0JJC0000011
L6764	TSKA158	BEAD CORE	1	G0ZZ00001935
L6765	TSKA122	CHIP INDUCTOR	1	J0JJC0000011
L6766-68	TSKA158	BEAD CORE	3	G0ZZ00001935
L6769,70	TSKA122	CHIP INDUCTOR	2	J0JJC0000011
L6771	TSKA158	BEAD CORE	1	G0ZZ00001935
L6773,74	TSKA158	BEAD CORE	2	G0ZZ00001935
L7101-08	TSKA122	CHIP INDUCTOR	8	J0JJC0000011
L7131-36	TSKA122	CHIP INDUCTOR	6	J0JJC0000011
L7161-68	TSKA122	CHIP INDUCTOR	8	J0JJC0000011
L7201-08	TSKA122	CHIP INDUCTOR	8	J0JJC0000011
L7231-36	TSKA122	CHIP INDUCTOR	6	J0JJC0000011
L7261-68	TSKA122	CHIP INDUCTOR	8	J0JJC0000011
L7301	TSKA122	CHIP INDUCTOR	1	J0JJC0000011
L7303	TSKA122	CHIP INDUCTOR	1	J0JJC0000011
L7312-23	TSKA122	CHIP INDUCTOR	12	J0JJC0000011
L7325-29	TLPF097	CHOKE COIL	5	G1A1R0H00001
L7401	TSKA122	CHIP INDUCTOR	1	J0JJC0000011
L7403	TSKA122	CHIP INDUCTOR	1	J0JJC0000011
L7412-23	TSKA122	CHIP INDUCTOR	12	J0JJC0000011
L7425-29	TLPF097	CHOKE COIL	5	G1A1R0H00001
L8001-03	ELJPA100KB	CHIP INDUCTOR	3	
L8008	ELJPA100KB	CHIP INDUCTOR	1	
L8010,11	ELJPA100KB	CHIP INDUCTOR	2	
L8013	ELJPA150KB	CHIP INDUCTOR	1	
L8014	ELJPA100KB	CHIP INDUCTOR	1	
L8016-18	ELJPA100KB	CHIP INDUCTOR	3	
L8020	ELJPA100KB	CHIP INDUCTOR	1	
L8022,23	ELJPA100KB	CHIP INDUCTOR	2	
L8025,26	ELJPA100KB	CHIP INDUCTOR	2	
L8028,29	ELJPA100KB	CHIP INDUCTOR	2	
L8501,02	TLPD061	LINE FILTER	2	G0A2R5H00003
L9001-03	EXCCL3225U1	EMI FILTER	3	
L9005	ELJPA150KB	CHIP INDUCTOR	1	
L9006	ELKE103FA	NOISE FILTER	1	
L9008-10	EXCCL3225U1	EMI FILTER	3	
L9017-19	ELJFA1R0KB	CHIP INDUCTOR	3	
L9026,27	ELJFBR33MB	CHIP INDUCTOR	2	
L9028	TLTAZ100K	PEAKING COIL	1	G1C100KA0002
L9036	TLTAZ100K	PEAKING COIL	1	G1C100KA0002
L9044	ELJPA100KB	CHIP INDUCTOR	1	
L9202	EXCCL3225U1	EMI FILTER	1	
L9205	EXCCL3225U1	EMI FILTER	1	
L9252	EXCCL3225U1	EMI FILTER	1	
L9254	EXCCL3225U1	EMI FILTER	1	
L9300	EXCCL3225U1	EMI FILTER	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L9350	EXCCL3225U1	EMI FILTER	1	
L9400	ELJFBR33MB	CHIP INDUCTOR	1	
L9401	EXCCL3225U1	EMI FILTER	1	
L9450	ELJFBR33MB	CHIP INDUCTOR	1	
L9451	EXCCL3225U1	EMI FILTER	1	
L9500-02	ELJFBR33MB	CHIP INDUCTOR	3	
L9503-06	ELJFA1R0KB	CHIP INDUCTOR	4	
L9550-52	ELJFBR33MB	CHIP INDUCTOR	3	
L9553-56	ELJFA1R0KB	CHIP INDUCTOR	4	
L9900	ELJFBR33MB	CHIP INDUCTOR	1	
L9903	ELJFBR33MB	CHIP INDUCTOR	1	
LC8001-03	TAX10079	FILTER	3	J0E7904B0002
LC9001-06	ELKE103FA	NOISE FILTER	6	
LC9010	J0E8004B0006	LCR FILTER	1	
LC9011	J0E2005B0004	LCR FILTER	1	
LC9012	J0E3505B0001	LCR FILTER	1	
LC9014	J0E8004B0006	LCR FILTER	1	
LC9015	J0E2005B0004	LCR FILTER	1	
LC9016	J0E3505B0001	LCR FILTER	1	
LC9018	J0E8004B0006	LCR FILTER	1	
LC9019	J0E2005B0004	LCR FILTER	1	
LC9020	J0E3505B0001	LCR FILTER	1	
LC9023-33	ELKE103FA	NOISE FILTER	11	
LF400	ELF11M010E	LINE FILTER	1	⚠
P1	TJS3A9900	10P CONNECTOR	1	K1KA10A00218
P2	TJS3A9920	12P CONNECTOR	1	K1KA12A00156
P4	TJS8A8570	CONNECTOR	1	K1KA02A00104
P5	TJS1A8880	12P TERMINAL	1	K1KA12A00176
P6	TJS1A8840	8P CONNECTOR	1	K1KA08A00221
P7	TJS1A8850	9P CONNECTOR	1	K1KA09A00099
P8	TJS1A8790	3P CONNECTOR	1	K1KA03A00213
P9	TJS158130	2P CONNECTOR	1	K1KA02A00244
P10-13	TJS3A9640	3P CONNECTOR	4	K1KA03A00171
P15A	TJS5A8850	13P CONNECTOR	1	K1KA13B00025
P15	TJS6A8600	13P CONNECTOR	1	
P16A	TJS5A8160	CONNECTOR	1	K1KA08B00119
P16	TJS5A9420	8P CONNECTOR	1	K1KB08A00054
P17	TJS1A8870	11P CONNECTOR	1	K1KA11A00073
P18A	TJS5A8520	10P CONNECTOR	1	K1KA10B00095
P18	TJS6A8160	10P CONNECTOR	1	K1KA10A00212
P19A	TJS5A8830	11P CONNECTOR	1	K1KA11B00024
P19	TJS6A8580	11P CONNECTOR	1	K1KA11A00056
P21A	TJS5A8830	11P CONNECTOR	1	K1KA11B00024
P21	TJS6A8580	11P CONNECTOR	1	K1KA11A00056
P22A	TJS5A8160	CONNECTOR	1	K1KA08B00119
P22	TJS5A9420	8P CONNECTOR	1	K1KB08A00054
P26,27	TJS1A8830	CONNECTOR	2	K1KA07A00056
P29A	TJS5A8760	CONNECTOR	1	K1KA06B00089
P29,30	TJS5A9490	6P CONNECTOR	2	K1KB06A00053
P41	TJS8A8570	CONNECTOR	1	K1KA02A00104
P43	TJS3A9680	7P CONNECTOR	1	K1KA07A00095
Q082	2SD601A	TRANSISTOR	1	2SD0601A
Q400,01	2SB1438	TRANSISTOR	2	
Q402,03	2SK1917	FET	2	
Q404,05	2SK3318000LB	FET	2	
Q406	2SC1384	TRANSISTOR	1	2SC13840W
Q407	2SA684	TRANSISTOR	1	
Q408	2SC1384	TRANSISTOR	1	2SC13840W
Q409	2SA684	TRANSISTOR	1	
Q410,11	2SC1384	TRANSISTOR	2	2SC13840W
Q412-15	2SK2197	FET	4	B1DAHQ000001
Q416	2SK2847	FET	1	B1DEFU000002
Q417,18	2SC3311A	TRANSISTOR	2	2SC3311AW
Q419	2SD2177R	TRANSISTOR	1	
Q421	2SA1309A	TRANSISTOR	1	
Q423,24	2SK3318000LB	FET	2	
Q425	2SD2177R	TRANSISTOR	1	
Q426	2SK2197	FET	1	B1DAHQ000001
Q427-29	2SC3311A	TRANSISTOR	3	2SC3311AW

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q430	2SB621A	TRANSISTOR	1	2SB0621AW
Q431	2SC3311A	TRANSISTOR	1	2SC3311AW
Q432	2SA1309A	TRANSISTOR	1	
Q434	2SB940	TRANSISTOR	1	2SB09400P
Q436	2SC1473A	TRANSISTOR	1	2SC1473AE
Q600	2SC3311A	TRANSISTOR	1	2SC3311AW
Q601	2SA1309A	TRANSISTOR	1	
Q602	2SC3311A	TRANSISTOR	1	2SC3311AW
Q635	2SC1473A	TRANSISTOR	1	2SC1473AE
Q636	2SC3311A	TRANSISTOR	1	2SC3311AW
Q650,51	2SC3311A	TRANSISTOR	2	2SC3311AW
Q730	2SB1030A	TRANSISTOR	1	
Q750	2SC3311A	TRANSISTOR	1	2SC3311AW
Q751	2SA1309A	TRANSISTOR	1	
Q775	2SC3311A	TRANSISTOR	1	2SC3311AW
Q776	2SA1309A	TRANSISTOR	1	
Q921	2SK2847	FET	1	B1DEFU000002
Q922	2SK2475	FET	1	
Q926	2SD1264	TRANSISTOR	1	2SD12640J
Q927	2SC1473A	TRANSISTOR	1	2SC1473AE
Q932	2SB621A	TRANSISTOR	1	2SB0621AW
Q933	2SC3311A	TRANSISTOR	1	2SC3311AW
Q2301-06	2SD601A	TRANSISTOR	6	2SD0601A
Q2401-06	2SD601A	TRANSISTOR	6	2SD0601A
Q3501	2SD601A	TRANSISTOR	1	2SD0601A
Q3503-13	2SD601A	TRANSISTOR	11	2SD0601A
Q3514	2SB709A	TRANSISTOR	1	2SB0709A
Q3515	2SD601A	TRANSISTOR	1	2SD0601A
Q3516	2SB709A	TRANSISTOR	1	2SB0709A
Q3517	2SD601A	TRANSISTOR	1	2SD0601A
Q3518	2SB709A	TRANSISTOR	1	2SB0709A
Q3519	2SD601A	TRANSISTOR	1	2SD0601A
Q3520	2SB709A	TRANSISTOR	1	2SB0709A
Q3521	2SD601A	TRANSISTOR	1	2SD0601A
Q3522	2SB709A	TRANSISTOR	1	2SB0709A
Q3523	2SD601A	TRANSISTOR	1	2SD0601A
Q3524	2SB709A	TRANSISTOR	1	2SB0709A
Q3525-34	2SD601A	TRANSISTOR	10	2SD0601A
Q3535	2SB709A	TRANSISTOR	1	2SB0709A
Q3536	2SD601A	TRANSISTOR	1	2SD0601A
Q6511,12	2SK2993	FET	2	
Q6513-17	2SB1571	TRANSISTOR	5	
Q6518	2SC1473A	TRANSISTOR	1	2SC1473AE
Q6519	2SB709A	TRANSISTOR	1	2SB0709A
Q6520	2SD601A	TRANSISTOR	1	2SD0601A
Q6521	FS7VS14AT11	FET	1	
Q6522-29	2SK319200SVE	FET	8	
Q6531	2SK2673	FET	1	
Q6532-39	2SK319200SVE	FET	8	
Q6541-43	FS7VS14AT11	FET	3	
Q6545,46	2SD601A	TRANSISTOR	2	2SD0601A
Q6601-06	2SK319200SVE	FET	6	
Q6607-10	2SK3192000LB	FET	4	
Q6611-18	2SK319200SVE	FET	8	
Q6621-28	2SK319200SVE	FET	8	
Q6631	2SD2402	TRANSISTOR	1	
Q6632	2SB1571	TRANSISTOR	1	
Q6633	2SD2402	TRANSISTOR	1	
Q6634	2SB1571	TRANSISTOR	1	
Q6635	2SD2402	TRANSISTOR	1	
Q6636	2SB1571	TRANSISTOR	1	
Q6637	2SD2402	TRANSISTOR	1	
Q6638	2SB1571	TRANSISTOR	1	
Q6641	2SD2402	TRANSISTOR	1	
Q6642	2SB1571	TRANSISTOR	1	
Q6643	2SD2402	TRANSISTOR	1	
Q6644	2SB1571	TRANSISTOR	1	
Q6645	2SD2402	TRANSISTOR	1	
Q6646	2SB1571	TRANSISTOR	1	
Q6647	2SD601A	TRANSISTOR	1	2SD0601A
Q6648	2SD1263A	TRANSISTOR	1	
Q6649	2SC1473A	TRANSISTOR	1	2SC1473AE
Q6650	2SA1767-Q	TRANSISTOR	1	
Q6701	2SD2402	TRANSISTOR	1	
Q6702	2SB1571	TRANSISTOR	1	
Q6703-06	2SK319200SVE	FET	4	
Q6712	2SD2402	TRANSISTOR	1	
Q6713	2SB1571	TRANSISTOR	1	
Q6714-17	2SK319200SVE	FET	4	
Q6721	2SD2402	TRANSISTOR	1	
Q6722	2SB1571	TRANSISTOR	1	
Q6723	2SD2402	TRANSISTOR	1	
Q6724	2SB1571	TRANSISTOR	1	
Q6727-32	2SK319200SVE	FET	6	
Q6740	2SD2402	TRANSISTOR	1	
Q6741	2SB1571	TRANSISTOR	1	
Q6744	2SD2402	TRANSISTOR	1	
Q6745	2SB1571	TRANSISTOR	1	
Q6746-53	2SK319200SVE	FET	8	
Q6761,62	2SK326800L	FET	2	
Q6763	2SK319200SVE	FET	1	
Q6764	2SK3192000LB	FET	1	
Q6765	2SD2402	TRANSISTOR	1	
Q6766	2SB1571	TRANSISTOR	1	
Q6777	2SD1263A	TRANSISTOR	1	
Q6778,79	2SC1473	TRANSISTOR	2	2SC14730E
Q7261,62	2SB709A	TRANSISTOR	2	2SB0709A
Q7311-16	2SK326900L	FET	6	
Q7317	2SD2185	TRANSISTOR	1	
Q7318	2SB1440	TRANSISTOR	1	2SB14400H
Q7319	2SD2185	TRANSISTOR	1	
Q7320	2SB1440	TRANSISTOR	1	2SB14400H
Q7411-16	2SK326900L	FET	6	
Q7417	2SD2185	TRANSISTOR	1	
Q7418	2SB1440	TRANSISTOR	1	2SB14400H
Q7419	2SD2185	TRANSISTOR	1	
Q7420	2SB1440	TRANSISTOR	1	2SB14400H
Q8001	2SB709A	TRANSISTOR	1	2SB0709A
Q8002-05	2SD601A	TRANSISTOR	4	2SD0601A
Q8006	2SB709A	TRANSISTOR	1	2SB0709A
Q8007-09	2SD601A	TRANSISTOR	3	2SD0601A
Q8010	2SB709A	TRANSISTOR	1	2SB0709A
Q8012,13	2SD601A	TRANSISTOR	2	2SD0601A
Q8014,15	2SB709A	TRANSISTOR	2	2SB0709A
Q8016	2SD601A	TRANSISTOR	1	2SD0601A
Q8018	2SD601A	TRANSISTOR	1	2SD0601A
Q8019	2SB709A	TRANSISTOR	1	2SB0709A
Q8020-22	2SD601A	TRANSISTOR	3	2SD0601A
Q8030	2SD601A	TRANSISTOR	1	2SD0601A
Q8031,32	2SB709A	TRANSISTOR	2	2SB0709A
Q8033	2SD601A	TRANSISTOR	1	2SD0601A
Q9001-03	2SD601A	TRANSISTOR	3	2SD0601A
Q9005-07	2SD601A	TRANSISTOR	3	2SD0601A
Q9009-11	2SD601A	TRANSISTOR	3	2SD0601A
Q9013-16	2SD601A	TRANSISTOR	4	2SD0601A
Q9017-20	2SK620	FET	4	2SK0620
Q9022	2SK620	FET	1	2SK0620
Q9050	2SK620	FET	1	2SK0620
Q9901-03	2SD601A	TRANSISTOR	3	2SD0601A
R081	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R082	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R083	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R084	ERJ6GEYJ271	M 270 OHM,J,1/10W	1	
R087	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R088	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R400-05	TARAFR06R8JC	F 6.8 OHM, J, 7W	6	
R406,07	ERDS1FJ824	C 820KOHM, J,1/2W	2	
R408	ER0S2CKF1823	M 182KOHM, F,1/4W	1	
R409	ER0S2CKF1503	M 150KOHM, F,1/4W	1	
R410	ERG3FJS333D	M 33KOHM, J, 3W	1	
R411,12	ERDS1FJ103	C 10KOHM, J,1/2W	2	
R413	ERG1FJS220D	M 22 OHM, J, 1W	1	
R414,15	ERDS1FJ100	C 10 OHM, J,1/2W	2	
R416	ERG2FJS820D	M 82 OHM, J, 2W	1	
R417	ERDS1FJ221	C 220 OHM, J,1/2W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R419,20	ERDS1FJ103	C 10KOHM, J,1/2W	2	
R421,22	ERDS1FJ100	C 10 OHM, J,1/2W	2	
R423,24	ERDS1FJ103	C 10KOHM, J,1/2W	2	
R425	ERF5EKR10	W 0.1 OHM, 5W	1	
R426	ERF5EKR15	W0.15 OHM, 5W	1	
R427,28	ERG3FJS471D	M 470 OHM, J, 3W	2	
R429	ER0S2CKF1823	M 182KOHM, F,1/4W	1	
R430	ER0S2CKF1623	M 162KOHM, F,1/4W	1	
R432	ERG3FJS333D	M 33KOHM, J, 3W	1	
R433	ERDS1FJ472	C 4.7KOHM, J,1/2W	1	
R434,35	ERDS1FJ101	C 100 OHM, J,1/2W	2	
R436,37	ERDS1FJ220	C 22 OHM, J,1/2W	2	
R438	ER0S2CKF1823	M 182KOHM, F,1/4W	1	
R439	ER0S2CKF1623	M 162KOHM, F,1/4W	1	
R440	ERX3FJSR47D	M0.47 OHM, J, 3W	1	
R441,42	ERDS1FJ222	C 2.2KOHM, J,1/2W	2	
R443,44	ERDS1FJ100	C 10 OHM, J,1/2W	2	
R445	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R446	ERDS1FJ472	C 4.7KOHM, J,1/2W	1	
R447,48	ERDS1FJ103	C 10KOHM, J,1/2W	2	
R449,50	ERG5FJ473H	M 47KOHM, J, 5W	2	
R451	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R452	ERG3FJS823D	M 82KOHM, J, 3W	1	
R453	ERG1FJS104D	M 100KOHM, J, 1W	1	
R454	ERG3FJS823D	M 82KOHM, J, 3W	1	
R456,57	ERDS1FJ103	C 10KOHM, J,1/2W	2	
R458	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R459	ERX2FJSR22D	M0.22 OHM, J, 2W	1	
R460	ERDS2TJ6R8	C 6.8 OHM, J,1/4W	1	
R461	ERX2FJSR22D	M0.22 OHM, J, 2W	1	
R462	ERF5EKR10	W 0.1 OHM, 5W	1	
R463	ERF5EKR15	W0.15 OHM, 5W	1	
R464	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R465	ERDS2TJ6R8	C 6.8 OHM, J,1/4W	1	
R466	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R467	ERDS1FJ221	C 220 OHM, J,1/2W	1	
R468	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R469	ERG1FJS220D	M 22 OHM, J, 1W	1	
R470	ERDS1FJ221	C 220 OHM, J,1/2W	1	
R471	ERDS1FJ391	C 390 OHM, J,1/2W	1	
R472	ERDS1FJ100	C 10 OHM, J,1/2W	1	
R474,75	ERDS2TJ104	C 100KOHM, J,1/4W	2	
R476	ERDS1FJ100	C 10 OHM, J,1/2W	1	
R478	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R481	ERDS2TJ472	C 4.7KOHM, J,1/4W	1	
R482	ERG2FJS183D	M 18KOHM, J, 2W	1	
R484	ERG2FJS183D	M 18KOHM, J, 2W	1	
R487	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R488	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R489	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R492	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R493	ERDS2TJ472	C 4.7KOHM, J,1/4W	1	
R495	ERDS1FJ471	C 470 OHM, J,1/2W	1	
R496	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R500	ERDS2TJ471	C 470 OHM, J,1/4W	1	
R502	ERDS2TJ472	C 4.7KOHM, J,1/4W	1	
R503	ERDS2TJ220	C 22 OHM, J,1/4W	1	
R504	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R505	ERDS2TJ682	C 6.8KOHM, J,1/4W	1	
R506	ERDS1FJ220	C 22 OHM, J,1/2W	1	
R508	ERDS2TJ683	C 68KOHM, J,1/4W	1	
R510	ER0S2CKF2551	M2.55KOHM, F,1/4W	1	
R511	ER0S2CKF4702	M 47KOHM, F,1/4W	1	EROS2CKF4702
R512	ER0S2CKF2202	M 22KOHM, F,1/4W	1	
R513	EVMEASA00B54	CONTROL 50KOHMB	1	
R514	ERDS2TJ222	C 2.2KOHM, J,1/4W	1	
R515	ER0S2CKF1691	M1.69KOHM, F,1/4W	1	
R516-19	ERDS2TJ223	C 22KOHM, J,1/4W	4	
R521-23	ERX2FJS1R5D	M 1.5 OHM, J, 2W	3	
R528	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
R529	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R531	ERDS2TJ682	C 6.8KOHM, J,1/4W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R532	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R533	ERDS2TJ680	C 68 OHM, J,1/4W	1	
R534	ERDS2TJ153	C 15KOHM, J,1/4W	1	
R535	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R536	ERG1FJS561D	M 560 OHM, J, 1W	1	
R537	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R538	ERDS2TJ151	C 150 OHM, J,1/4W	1	
R539	ERG3FJS390D	M 39 OHM, J, 3W	1	
R540	ERDS2TJ682	C 6.8KOHM, J,1/4W	1	
R541	ERG2FJS103D	M 10KOHM, J, 2W	1	
R542	ERG2FJS223D	M 22KOHM, J, 2W	1	
R543	ER0S2CKF3651	M3.65KOHM, F,1/4W	1	
R544	ER0S2CKF3830	M 383 OHM, F,1/4W	1	
R548	EVMEASA00B24	CONTROL 20KOHMB 0.3W	1	
R549	ERDS1FJ100	C 10 OHM, J,1/2W	1	
R552	ERDS1FJ220	C 22 OHM, J,1/2W	1	
R554	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R555	ERDS2TJ472	C 4.7KOHM, J,1/4W	1	
R556	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R557	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R558	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R559	ERDS2TJ472	C 4.7KOHM, J,1/4W	1	
R560	ERDS2TJ561	C 560 OHM, J,1/4W	1	
R561	ERDS2TJ471	C 470 OHM, J,1/4W	1	
R562	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R563	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R564-66	ERG3FJS823D	M 82KOHM, J, 3W	3	
R567,68	ERG2FJS471D	M 470 OHM, J, 2W	2	
R569	ER0S2CKF4421	M4.42KOHM, F,1/4W	1	
R571,72	ERQ14AJ100P	F 10 OHM, J,1/4W	2	
R573	ERQ14AJ221P	F 220 OHM, J,1/4W	1	ERQ14AJW221E
R576	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R580,81	ERDS2TJ333	C 33KOHM, J,1/4W	2	
R582	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R583	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R600	ERJ6GEYJ823	M 82KOHM,J,1/10W	1	
R601	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R602	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R603,04	ERJ6GEYJ153	M 15KOHM,J,1/10W	2	
R605	ERG12SJ101P	M 100 OHM, J,1/2W	1	
R606,07	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R608	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R609	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R610	ERJ6GEYJ823	M 82KOHM,J,1/10W	1	
R611	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R612	ERG12SJ101P	M 100 OHM, J,1/2W	1	
R613	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R614	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R616	ERJ6ENF1102	M 11KOHM, 1/10W	1	
R617	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R618	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R619	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R620	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R621	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R622	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R623	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R630	ERD25FJ102	C 1KOHM, J,1/4W	1	
R632	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R634	ERJ6GEYJ474	M 470KOHM,J,1/10W	1	
R635	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R636	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R638	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R639	EVMEGSA00B54	CONTROL 50KOHMB	1	
R640	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R641	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R642	ERJ6ENF2491	M2.49KOHM, 1/10W	1	
R644	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R645-47	ERJ6ENF6802	M 68KOHM, 1/10W	3	
R648	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R649	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R650	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R651	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R652,53	ERJ6GEYJ333	M 33KOHM,J,1/10W	2	
R654	ERG1FJS561D	M 560 OHM, J, 1W	1	
R655	ERD25FJ471	C 470 OHM, J,1/4W	1	
R656	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R657	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R658	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R659	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R661	ERD25FJ822	C 8.2KOHM, J,1/4W	1	
R662	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R663	ERX12SJ4R7	M 4.7 OHM, J,1/2W	1	
R664	ERX1FJS8R2D	M 8.2 OHM, J, 1W	1	
R665	ERDS1FJ100	C 10 OHM, J,1/2W	1	
R666	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R667	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R668	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R700	ERJ6GEYJ391	M 390 OHM,J,1/10W	1	
R701,02	ERJ6GEYJ680	M 68 OHM,J,1/10W	2	
R703	ERJ6GEYJ271	M 270 OHM,J,1/10W	1	
R704	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R705	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R706	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R707	ERJ6GEYJ155	M 1.5MOHM,J,1/10W	1	
R708	ERJ6GEYJ241	M 240 OHM,J,1/10W	1	
R709	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R710	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R711	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R712	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R713,14	ERJ6ENF1501	M 1.5KOHM, 1/10W	2	
R715	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R716	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R717	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	
R718,19	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R720	ERD25FJ472	C 4.7KOHM, J,1/4W	1	
R721	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R722	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R723	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R724	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	
R725	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R726	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R750	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R751	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R752	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R753	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R754	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R755	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R756	ERJ6ENF1913	M19.1KOHM, 1/10W	1	
R758	ERJ6GEYJ154	M 150KOHM,J,1/10W	1	
R759	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R760	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R761	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R762	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R763	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R764	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R765	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R766	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R767	ERJ6ENF2003	M 200KOHM, 1/10W	1	
R768	ERJ6ENF6192	M61.9KOHM, 1/10W	1	
R769,70	ERJ6ENF1003	M 100KOHM, 1/10W	2	
R775,76	ERD25FJ223	C 22KOHM, J,1/4W	2	
R777	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R778	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R779-82	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R783	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R784	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R785,86	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R787	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R788	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R789	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R793,94	ERJ6GEYJ273	M 27KOHM,J,1/10W	2	
R795,96	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R797	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R798	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R799	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R900,01	ERC12ZGK105	S 1MOHM, K,1/2W	2	
R921	ERDS1FJ100	C 10 OHM, J,1/2W	1	
R922	ERX12SJ4R7	M 4.7 OHM, J,1/2W	1	
R923	ERDS2TJ681	C 680 OHM, J,1/4W	1	
R924	ERDS2TJ182	C 1.8KOHM, J,1/4W	1	
R925	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R926	ERX2FJSR68D	M0.68 OHM, J, 2W	1	
R927	ERDS2TJ124	C 120KOHM, J,1/4W	1	
R928	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R929	ERDS2TJ472	C 4.7KOHM, J,1/4W	1	
R930	ERX1FJS8R2D	M 8.2 OHM, J, 1W	1	
R931	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R933	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R934	ERDS2TJ153	C 15KOHM, J,1/4W	1	
R935,36	ERG2FJS104D	M 100KOHM, J, 2W	2	
R937	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R938	ERG1FJS151D	M 150 OHM, J, 1W	1	
R947	ERG3FJS104D	M 100KOHM, J, 3W	1	
R949	ERDS1FJ471	C 470 OHM, J,1/2W	1	
R950	ERDS1FJ220	C 22 OHM, J,1/2W	1	
R951	ERDS2TJ682	C 6.8KOHM, J,1/4W	1	
R952	ERDS2TJ472	C 4.7KOHM, J,1/4W	1	
R953	ERDS2TJ682	C 6.8KOHM, J,1/4W	1	
R954	ERDS2TJ151	C 150 OHM, J,1/4W	1	
R955	ERDS2TJ682	C 6.8KOHM, J,1/4W	1	
R956	ERDS2TJ153	C 15KOHM, J,1/4W	1	
R957	ERDS2TJ392	C 3.9KOHM, J,1/4W	1	
R958	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R959	ERDS2TJ623	C 62KOHM, J,1/4W	1	
R960	EVMEASA00B24	CONTROL 20KOHMB 0.3W	1	
R961	ERDS2TJ222	C 2.2KOHM, J,1/4W	1	
R962	ERG3FJS472D	M 4.7KOHM, J, 3W	1	
R963	ERG3FJS183D	M 18KOHM, J, 3W	1	
R964	ERG12SJ100	M 10 OHM, J,1/2W	1	
R965	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R966	ERDS2TJ683	C 68KOHM, J,1/4W	1	
R967	EVMEASA00B24	CONTROL 20KOHMB 0.3W	1	
R968	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	
R969	ERDS2TJ182	C 1.8KOHM, J,1/4W	1	
R970	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R981	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R982	ERJ6GEYJ105	M 1MOHM,J,1/10W	1	
R983,84	ERX12SZJR12	M0.12 OHM, J,1/2W	2	
R985	ERJ6ENF1800	M 180 OHM, 1/10W	1	
R986	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R987	ERJ6ENF1800	M 180 OHM, 1/10W	1	
R988	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R989	ERJ6ENF2001	M 2.0KOHM,J,1/2W	1	
R1554,55	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R2301	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2304	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2305,06	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R2307	ERJ6GEYJ683	M 68KOHM,J,1/10W	1	
R2308	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2309	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2310	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R2319,20	ERJ6GEYJ561	M 560 OHM,J,1/10W	2	
R2321	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2322,23	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R2324,25	ERJ6GEYJ561	M 560 OHM,J,1/10W	2	
R2326	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R2327	ERJ6GEYJ752	M 7.5KOHM,J,1/10W	1	
R2328	ERJ6GEYJ683	M 68KOHM,J,1/10W	1	
R2329,30	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	2	
R2331	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2332	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R2333	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2334	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2335,36	ERJ6GEYJ123	M 12KOHM,J,1/10W	2	
R2341	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2342	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2343	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2344	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2345	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2346	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R2347	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2348	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2405	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2408	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2410	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2411	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R2412	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2416	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2417	ERJ6GEYJ243	M 24KOHM,J,1/10W	1	
R2418,19	ERJ6GEYJ154	M 150KOHM,J,1/10W	2	
R2420	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2421	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2422	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R2423	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2424	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2425	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2426	ERJ6GEYJ753	M 75KOHM,J,1/10W	1	
R2427	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2428,29	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R2430	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2431	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R2432-34	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	3	
R2435	ERJ6GEYJ683	M 68KOHM,J,1/10W	1	
R2436,37	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2439	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R2440	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2441	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R2443	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R2444	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2445	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2446	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2448	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2450	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R2452	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2453	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2456	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2460	ERJ6ENF1802	M 18KOHM, 1/10W	1	
R2461,62	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R2463	ERJ6ENF1502	M 15KOHM, 1/10W	1	
R2466	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2467	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R2468	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2469	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R2470	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2471	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R2472	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2473	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R2476,77	ERJ6GEYJ220	M 22 OHM,J,1/10W	2	
R3501,02	ERJ6GEYJ184	M 180KOHM,J,1/10W	2	
R3503-05	ERJ6ENF75R0	M 75 OHM, 1/10W	3	
R3506-09	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	4	
R3510-12	ERJ6GEYJ101	M 100 OHM,J,1/10W	3	
R3513,14	ERJ6GEYJ184	M 180KOHM,J,1/10W	2	
R3515-18	ERJ6GEYJ560	M 56 OHM,J,1/10W	4	
R3520	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3521,22	ERJ6GEYJ184	M 180KOHM,J,1/10W	2	
R3523	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R3524,25	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R3526-28	ERJ6ENF75R0	M 75 OHM, 1/10W	3	
R3529,30	ERJ6GEYJ184	M 180KOHM,J,1/10W	2	
R3531-33	ERJ6ENF75R0	M 75 OHM, 1/10W	3	
R3534	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R3535	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R3536	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3537,38	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R3539	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3540	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3543-48	ERJ6GEYJ101	M 100 OHM,J,1/10W	6	
R3549	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3550	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3551	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3553	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3555	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3556,57	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3558	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3559	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3560	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3561,62	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3563	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3564	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3565	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3566	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3567	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3568	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3569	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3570	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3571	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3572	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3573	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3574	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3575	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3576	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3577	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3578	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3579	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3580	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3581	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3582	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3583,84	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R3585,86	ERJ6GEYJ560	M 56 OHM,J,1/10W	2	
R3587	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3589	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R3590	ERJ6GEYJ560	M 56 OHM,J,1/10W	1	
R3592-97	ERJ6GEYJ102	M 1KOHM,J,1/10W	6	
R3599-04	ERJ6GEYJ101	M 100 OHM,J,1/10W	6	
R3605	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3606	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3607	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3608	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3609	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3610	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3611-22	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	12	
R3623-25	ERJ6GEYJ102	M 1KOHM,J,1/10W	3	
R3626-37	ERJ6GEYJ3R3	M 3.3KOHM,J,1/10W	12	
R3638-40	ERJ6GEYJ101	M 100 OHM,J,1/10W	3	
R3641	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3642	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3643	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3644	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3645	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3646	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3647	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3648	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3649	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3650	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3651	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3652	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3653	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3654	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3655	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3656	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3657-64	ERJ6GEYJ102	M 1KOHM,J,1/10W	8	
R3665-72	ERJ6GEYJ101	M 100 OHM,J,1/10W	8	
R3673-75	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	3	
R3676-78	ERJ6GEYJ561	M 560 OHM,J,1/10W	3	
R3679	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3681-83	ERJ6GEYJ331	M 330 OHM,J,1/10W	3	
R3684	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3686,87	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	2	
R3688-91	ERJ6GEYJ221	M 220 OHM,J,1/10W	4	
R3695,96	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R3697	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3698	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3699	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3700	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3701,02	ERJ6GEYJ560	M 56 OHM,J,1/10W	2	
R3703	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R3704	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R3705,06	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R3707	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R3708	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R3709	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3710	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R3711	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3712	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R3713-17	ERJ6GEYJ101	M 100 OHM,J,1/10W	5	
R3725	ERJ6GEYJ560	M 56 OHM,J,1/10W	1	
R3726-28	ERJ6GEYJ101	M 100 OHM,J,1/10W	3	
R3730	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3731	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R3732-39	ERJ6GEYJ103	M 10KOHM,J,1/10W	8	
R3740	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R3742-48	ERJ6GEYJ103	M 10KOHM,J,1/10W	7	
R3750,51	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R3752	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R3753-59	ERJ6GEYJ101	M 100 OHM,J,1/10W	7	
R3761-77	ERJ6GEYJ101	M 100 OHM,J,1/10W	17	
R3778	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R3779-81	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
R6401-06	ERJ6GEYJ221	M 220 OHM,J,1/10W	6	
R6407,08	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6421-26	ERJ6GEYJ221	M 220 OHM,J,1/10W	6	
R6427,28	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6442	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6444	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	1	
R6445	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6446,47	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6448	ERG1FJS471D	M 470 OHM, J, 1W	1	
R6449	ERX1FJS3R3D	M 3.2 OHM, J, 1W	1	
R6450	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R6451	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6452,53	ERJ6GEYJ473	M 47KOHM,J,1/10W	2	
R6461-67	ERJ6GEYJ471	M 470 OHM,J,1/10W	7	
R6468	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6469	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R6470	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6471	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6472	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6473	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6474,75	ERJ6ENF4872	M48.7KOHM, 1/10W	2	
R6476	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R6477,78	ERJ6ENF1023	M10.2KOHM, 1/10W	2	
R6479	ERJ6ENF2741	M2.74KOHM, 1/10W	1	
R6480	ERJ6ENF6811	M6.81KOHM, 1/10W	1	
R6481,82	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R6483	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6484	ERJ6GEYJ474	M 470KOHM,J,1/10W	1	
R6485,86	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6487,88	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6489	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6490	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
R6491	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R6492	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6493	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6494	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R6495	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6496,97	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6500	ERX3FJS2R7D	M 2.7 OHM, J, 3W	1	
R6501,02	ERG1FJS220D	M 22 OHM, J, 1W	2	
R6503	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6504	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R6505	ERJ6ENF4531	M4.53KOHM, 1/10W	1	
R6506-08	ERJ6GEYJ104	M 100KOHM,J,1/10W	3	
R6509,10	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6511,12	ERX3FJS2R7D	M 2.7 OHM, J, 3W	2	
R6513	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6514	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6515	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6516	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6517	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6518,19	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R6520	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6521	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6522	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6523	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6524	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
R6525-34	ERJ6GEYJ470	M 47 OHM,J,1/10W	10	
R6535-42	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	8	
R6543,44	ERJ6GEYJ470	M 47 OHM,J,1/10W	2	
R6545,46	ERJ6GEYJ154	M 150KOHM,J,1/10W	2	
R6547	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	1	
R6548	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6549-51	ERJ6GEYJ103	M 10KOHM,J,1/10W	3	
R6552	ERG1FJS332D	M 3.3KOHM, J, 1W	1	
R6553	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6554	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6555	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6556	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
R6557	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	1	
R6558	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6559-61	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	3	
R6562,63	ERJ6GEYJ470	M 47 OHM,J,1/10W	2	
R6564,65	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6566,67	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	2	
R6568,69	ERJ6GEYJ471	M 470 OHM,J,1/10W	2	
R6570-74	ERJ6GEYJ101	M 100 OHM,J,1/10W	5	
R6575,76	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6577	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6578	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6579,80	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	2	
R6581,82	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	2	
R6583-86	ERJ6GEYJ471	M 470 OHM,J,1/10W	4	
R6587-90	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	4	
R6591	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6592-94	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	3	
R6595-99	ERJ6GEYJ224	M 220KOHM,J,1/10W	5	
R6600	ERG2FJS104D	M 100KOHM, J, 2W	1	
R6601-03	ERX2FJSR22D	M0.22 OHM, J, 2W	3	
R6604,05	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6607-09	ERX2FJS1R5D	M 1.5 OHM, J, 2W	3	
R6610	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6611-22	ERJ6GEYJ100	M 10 OHM,J,1/10W	12	
R6623-38	ERJ6GEYJ101	M 100 OHM,J,1/10W	16	
R6639,40	ERJ6GEYJ100	M 10 OHM,J,1/10W	2	
R6641,42	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6643,44	ERJ6GEYJ100	M 10 OHM,J,1/10W	2	
R6645,46	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6647-55	ERJ6GEYJ100	M 10 OHM,J,1/10W	9	
R6656	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6657-65	ERJ6GEYJ100	M 10 OHM,J,1/10W	9	
R6666	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6667-70	ERJ6GEYJ470	M 47 OHM,J,1/10W	4	
R6671	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6672	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6673-78	ERJ6GEYJ101	M 100 OHM,J,1/10W	6	
R6679-92	ERJ6GEYJ471	M 470 OHM,J,1/10W	14	
R6693	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6694	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R6695	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6696	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R6702-04	ERX2FJSR22D	M0.22 OHM, J, 2W	3	
R6706-08	ERJ6GEYJ471	M 470 OHM,J,1/10W	3	
R6709	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R6710-12	ERJ6GEYJ471	M 470 OHM,J,1/10W	3	
R6713,14	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6715	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6716	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6717-22	ERJ6GEYJ100	M 10 OHM,J,1/10W	6	
R6723,24	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6725	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6726	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6727-32	ERJ6GEYJ100	M 10 OHM,J,1/10W	6	
R6734,35	ERJ6GEYJ100	M 10 OHM,J,1/10W	2	
R6737,38	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6740-51	ERJ6GEYJ100	M 10 OHM,J,1/10W	12	
R6756,57	ERJ6GEYJ100	M 10 OHM,J,1/10W	2	
R6758	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6760	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6761-72	ERJ6GEYJ101	M 100 OHM,J,1/10W	12	
R6775-78	ERJ6GEYJ101	M 100 OHM,J,1/10W	4	
R6781-85	ERJ6GEYJ101	M 100 OHM,J,1/10W	5	
R6803-05	ERX2FJS1R5D	M 1.5 OHM, J, 2W	3	
R6806-09	ERJ6GEYJ101	M 100 OHM,J,1/10W	4	
R6810-13	ERJ6GEYJ100	M 10 OHM,J,1/10W	4	
R6814	ERG2FJS104D	M 100KOHM, J, 2W	1	
R6815-18	ERJ6GEYJ224	M 220KOHM,J,1/10W	4	
R6819	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6820	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6821,22	ERJ12YJ470H	M 47 OHM, J,1/2W	2	
R6823,24	ERJ14YJ223H	M 22KOHM, J,1/4W	2	
R6825	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6826,27	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6828	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R6829	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
R6830	ERJ14YJ223H	M 22KOHM, J,1/4W	1	
R6831	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6832	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6848	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6850,51	ERJ6ENF4872	M48.7KOHM, 1/10W	2	
R6852	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R6853,54	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R6855	ERJ6GEYJ474	M 470KOHM,J,1/10W	1	
R6856	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6857,58	ERJ6ENF1023	M10.2KOHM, 1/10W	2	
R6859	ERJ6ENF7681	M7.68KOHM, 1/10W	1	
R6860	ERJ6ENF4871	M4.87KOHM, 1/10W	1	
R6861,62	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6863	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R7101-04	ERJ6GEYJ471	M 470 OHM,J,1/10W	4	
R7105	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7131-34	ERJ6GEYJ471	M 470 OHM,J,1/10W	4	
R7141-44	ERJ6GEYJ471	M 470 OHM,J,1/10W	4	
R7148-50	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
R7161-64	ERJ6GEYJ471	M 470 OHM,J,1/10W	4	
R7165	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7205	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7206-09	ERJ6GEYJ471	M 470 OHM,J,1/10W	4	
R7236-39	ERJ6GEYJ471	M 470 OHM,J,1/10W	4	
R7251-54	ERJ6GEYJ471	M 470 OHM,J,1/10W	4	
R7265-68	ERJ6GEYJ471	M 470 OHM,J,1/10W	4	
R7273	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7275-78	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R7301-04	ERJ6GEYJ471	M 470 OHM,J,1/10W	4	
R7305	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7311,12	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R7313	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7314	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R7315	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R7316	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	1	
R7317	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7320,21	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R7322,23	ERJ6GEYJ220	M 22 OHM,J,1/10W	2	
R7324,25	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	2	
R7327	ERJ6ENF7682	M76.8KOHM, 1/10W	1	
R7328	ERJ6ENF7681	M7.68KOHM, 1/10W	1	
R7329	ERJ6ENF4871	M4.87KOHM, 1/10W	1	
R7330	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7331	ERJ6GEYJ474	M 470KOHM,J,1/10W	1	
R7332,33	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R7335	ERJ6ENF3832	M38.3KOHM, 1/10W	1	
R7336	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R7337	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R7338	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7339	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R7340	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7401-04	ERJ6GEYJ471	M 470 OHM,J,1/10W	4	
R7405	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7411,12	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R7413	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7414	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R7415	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R7416	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	1	
R7417	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7420,21	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R7422,23	ERJ6GEYJ220	M 22 OHM,J,1/10W	2	
R7424,25	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	2	
R7427	ERJ6ENF7682	M76.8KOHM, 1/10W	1	
R7428	ERJ6ENF7681	M7.68KOHM, 1/10W	1	
R7429	ERJ6ENF4871	M4.87KOHM, 1/10W	1	
R7430	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R7431	ERJ6GEYJ474	M 470KOHM,J,1/10W	1	
R7432,33	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R7435	ERJ6ENF3832	M38.3KOHM, 1/10W	1	
R7436	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R7437	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R7438	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R7439	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R7440	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R8003	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	
R8004	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R8005	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R8006	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R8007	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R8008	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R8009	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R8010	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R8011	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R8012	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R8013	ERJ6ENF4301	M 4.3KOHM, 1/10W	1	
R8014	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R8015	ERJ6GEYJ271	M 270 OHM,J,1/10W	1	
R8016	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R8017	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R8018	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R8019	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R8020	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R8021	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R8022	ERJ6GEYJ681	M 680 OHM,J,1/10W	1	
R8023	ERJ6ENF5621	M5.62KOHM, 1/10W	1	
R8024	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R8025-27	ERJ6ENF1201	M 1.2KOHM, 1/10W	3	
R8028	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R8029	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R8030	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R8031	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R8032	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R8033-35	ERJ6GEYJ331	M 330 OHM,J,1/10W	3	
R8036	ERJ6ENF2210	M 221 OHM, 1/10W	1	
R8037	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R8038	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R8039	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R8040	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R8041	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R8043	ERJ6GEYJ271	M 270 OHM,J,1/10W	1	
R8044	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R8045	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R8046	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R8047	ERJ6ENF4700	M 470 OHM, 1/10W	1	
R8048	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R8049	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R8050	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R8051	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R8052	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R8053	ERJ6ENF2210	M 221 OHM, 1/10W	1	
R8054	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R8055	ERJ6ENF2210	M 221 OHM, 1/10W	1	
R8056	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R8057	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R8058	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R8061	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R8063	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R8064	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R8065	ERJ6ENF2210	M 221 OHM, 1/10W	1	
R8066	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R8067	ERJ6ENF2210	M 221 OHM, 1/10W	1	
R8068	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R8069	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R8070	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R8071	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R8072	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R8073	ERJ6ENF3300	M 330 OHM, 1/10W	1	
R8074	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R8075	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R8077	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R8078	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R8080	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R8081	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R8082	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R8083	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R8084	ERJ6ENF2210	M 221 OHM, 1/10W	1	
R8085	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	1	
R8086	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R8087,88	ERJ6GEYJ271	M 270 OHM,J,1/10W	2	
R8089	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R8090	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R8091	ERJ6GEYJ271	M 270 OHM,J,1/10W	1	
R8092	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R8093,94	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R8095	ERJ6GEYJ681	M 680 OHM,J,1/10W	1	
R8098	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R8100	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R8101	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R8103	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R8112,13	EXB38V330J	RESISTOR ARRAY	2	
R8114	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R8116	EXB38V330J	RESISTOR ARRAY	1	
R8117	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R8118	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R8120	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R8121	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R8122	EXB38V330J	RESISTOR ARRAY	1	
R8124	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R8125	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R8126	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R8128	EXB38V330J	RESISTOR ARRAY	1	
R8129	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R8130	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R8131,32	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R8133,34	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R8135	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R8136	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R8138	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R8139	ERJ6GEYJ183	M 18KOHM,J,1/10W	1	
R8140	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R8141	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R8142	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R8143-45	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	3	
R8146	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R8175	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R8176	ERJ6GEYJ183	M 18KOHM,J,1/10W	1	
R8181	ERJ6GEYJ181	M 180 OHM,J,1/10W	1	
R8182	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R8183	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R8185	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R8186,87	ERJ6GEYJ561	M 560 OHM,J,1/10W	2	
R8188	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R8189,90	ERJ6GEYJ220	M 22 OHM,J,1/10W	2	
R8191	ERJ6GEYJ180	M 18 OHM,J,1/10W	1	
R8194	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R8196	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R8197,98	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R8200	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R8201	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R8205	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R8221,22	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R8225-28	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R8231-37	EXB38V330J	RESISTOR ARRAY	7	
R8238-43	EXB38V104J	RESISTOR ARRAY	6	
R8251,52	ERJ6GEYJ331	M 330 OHM,J,1/10W	2	
R8276,77	EXB38V104J	RESISTOR ARRAY	2	
R8278	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R8280	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R8281	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R8332	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R8428	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R8429	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R8430-32	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	3	
R8434	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R8435	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R8612	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R8614	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R8617	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R9001-06	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
R9007-11	ERJ6ENF1500	M 150 OHM, 1/10W	5	
R9012-15	ERJ3GEYJ102	M 1KOHM,J,1/16W	4	
R9016	ERJ6ENF1500	M 150 OHM, 1/10W	1	
R9017	ERJ6ENF5111	M5.11KOHM, 1/10W	1	
R9018	ERJ6ENF1741	M1.74KOHM, 1/10W	1	
R9019	ERJ6ENF5111	M5.11KOHM, 1/10W	1	
R9020	ERJ6ENF1741	M1.74KOHM, 1/10W	1	
R9021	ERJ6ENF5111	M5.11KOHM, 1/10W	1	
R9022	ERJ6ENF1741	M1.74KOHM, 1/10W	1	
R9023	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9024	ERJ6ENF7500	M 750 OHM, 1/10W	1	
R9025	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9026	ERJ6ENF7500	M 750 OHM, 1/10W	1	
R9027	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9028	ERJ6ENF7500	M 750 OHM, 1/10W	1	
R9029-32	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	4	
R9033	ERJ6ENF8200	M 820 OHM, 1/10W	1	
R9034	ERJ6ENF2701	M 2.7KOHM, 1/10W	1	
R9035	ERJ6ENF8200	M 820 OHM, 1/10W	1	
R9036	ERJ6ENF2701	M 2.7KOHM, 1/10W	1	
R9037	ERJ6ENF8200	M 820 OHM, 1/10W	1	
R9038	ERJ6ENF2701	M 2.7KOHM, 1/10W	1	
R9039-41	ERJ3GEYJ181	M 180 OHM,J,1/16W	3	
R9043-45	ERJ3GEYJ181	M 180 OHM,J,1/16W	3	
R9047-49	ERJ3GEYJ181	M 180 OHM,J,1/16W	3	
R9051-53	EXB38V151J	RESISTOR ARRAY	3	
R9054-56	ERJ6ENF1800	M 180 OHM, 1/10W	3	
R9058-60	ERJ6ENF1800	M 180 OHM, 1/10W	3	
R9062-64	ERJ6ENF1800	M 180 OHM, 1/10W	3	
R9066-68	ERJ6ENF1801	M 1.8KOHM, 1/10W	3	
R9070-72	ERJ6ENF1801	M 1.8KOHM, 1/10W	3	
R9074-76	ERJ6ENF1801	M 1.8KOHM, 1/10W	3	
R9078-80	EXB38V151J	RESISTOR ARRAY	3	
R9081-83	ERJ6ENF1800	M 180 OHM, 1/10W	3	
R9085-87	ERJ6ENF1800	M 180 OHM, 1/10W	3	
R9089-91	ERJ6ENF1800	M 180 OHM, 1/10W	3	
R9093-04	ERJ3GEYJ221	M 220 OHM,J,1/16W	12	
R9105,06	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9109	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R9111	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R9113	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R9114-17	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9118	TAJAAH0680JV	M 68 OHM,J,1/16W	1	D0GB680JA006

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9119,20	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R9121	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R9122-25	TAJAAH0101JV	M 100 OHM,J,1/16W	4	D0GB101JA006
R9126-31	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
R9132,33	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R9134	TAJAAH0680JV	M 68 OHM,J,1/16W	1	D0GB680JA006
R9135,36	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R9137,38	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R9139	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9140	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9141-43	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	3	
R9144	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9145	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9146	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9147	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R9148,49	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R9150	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9152	ERJ6ENF6201	M 6.2KOHM, 1/10W	1	
R9153-55	ERJ3GEYJ102	M 1KOHM,J,1/16W	3	
R9156	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9157,58	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R9159-61	ERJ3GEYJ102	M 1KOHM,J,1/16W	3	
R9162	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9163,64	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R9165,66	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R9167,68	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9169	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9170	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9171,72	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R9173	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9174	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9175	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9176	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9177	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9178	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9179,80	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R9181	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9182-84	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9185	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9186	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9188	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9189	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9190	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9191,92	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9194	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	
R9195	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9196-98	ERJ3GEYJ560	M 56 OHM,J,1/16W	3	
R9203	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9204	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9205	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R9206	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9207,08	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9209	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R9210	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9211	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R9212	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9213,14	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R9216,17	ERJ6ENF5100	M 510 OHM, 1/10W	2	
R9218	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9219	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9220,21	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R9222	ERJ6ENF5100	M 510 OHM, 1/10W	1	
R9223	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9224,25	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9226	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R9227	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9229,30	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R9231	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9232,33	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R9235,36	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R9238	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9240	ERJ6ENF2550	M 255 OHM, 1/10W	1	
R9241	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9242	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9243	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9244	ERJ6ENF2550	M 255 OHM, 1/10W	1	
R9245,46	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R9247	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9249	ERJ6ENF2550	M 255 OHM, 1/10W	1	
R9252	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9253	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R9254	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9257	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9258	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9260	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9261	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9267	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9268	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9270	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9272	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9276,77	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9278	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R9279	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R9280	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9282	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9286	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9289	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9290	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R9291	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	1	
R9292	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9293	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9294	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9295	ERJ6ENF1651	M1.65KOHM, 1/10W	1	
R9296	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9297	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9298	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9299	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9300	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9301	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R9302	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9303	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	1	
R9304,05	TAJAAH0470JV	M 47 OHM,J,1/16W	2	D0GB470JA006
R9306	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9308-11	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	4	
R9312	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9313	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9316	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9317	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9318	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9319	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9320	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9321	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9322	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9323	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R9324	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9325	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9326	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9327	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9328	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9329,30	ERJ3GEYJ223	M 22KOHM,J,1/16W	2	
R9331	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9332	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9335	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9336	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9337	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9338-65	ERJ3GEYJ151	M 150 OHM,J,1/16W	28	
R9366-69	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R9370,71	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R9372,73	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9374,75	ERJ3GEYJ560	M 56 OHM,J,1/16W	2	
R9376,77	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R9378-81	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9386-89	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9392,93	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9400,01	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9402,03	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9404	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9406,07	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9410,11	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9412-14	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9415	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9416	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9418-23	ERJ3GEYJ103	M 10KOHM,J,1/16W	6	
R9424	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9425,26	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9427	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9428,29	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9430,31	TAJAAH0330JV	M 33 OHM,J,1/16W	2	D0GB330JA006
R9432,33	ERJ3GEYJ273	M 27KOHM,J,1/16W	2	
R9434	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9435	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9436-38	ERJ3GEYJ100	M 10 OHM,J,1/16W	3	
R9441	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9442	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9443	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R9444-46	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9448,49	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9451	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9452	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9453,54	ERJ3GEYJ151	M 150 OHM,J,1/16W	2	
R9455	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9456,57	ERJ3GEYJ151	M 150 OHM,J,1/16W	2	
R9458,59	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9460,61	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R9462	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9464	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9465	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9467	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R9468	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R9469	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R9472	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9473	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R9475	ERJ3GEYJ225	M 2.2MOHM,J,1/16W	1	
R9479-81	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9483	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9484,85	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R9495-99	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
R9501	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9502	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9504	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9507	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9510	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9511	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9513	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9514,15	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9517,18	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9520	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9526-29	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9530,31	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9532-35	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9536	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9540	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9541	ERJ3GEYJ684	M 680KOHM,J,1/16W	1	D0GB684JA002
R9542,43	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R9544	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9545	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R9547	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9548,49	ERJ3GEYJ151	M 150 OHM,J,1/16W	2	
R9550,51	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R9552,53	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9554,55	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9556-59	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R9560	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9561	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9562	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9563	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9564	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9565	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9566	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9567,68	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R9569-74	ERJ3GEYJ103	M 10KOHM,J,1/16W	6	
R9575,76	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9577,78	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9579	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9582	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9584,85	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9587-07	ERJ3GEYJ103	M 10KOHM,J,1/16W	21	
R9609	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9612	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9613-17	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
R9618-21	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R9624-27	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9630-33	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9634	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9635-50	ERJ3GEYJ103	M 10KOHM,J,1/16W	16	
R9651	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9652,53	EXB38V151J	RESISTOR ARRAY	2	
R9656-63	ERJ3GEYJ103	M 10KOHM,J,1/16W	8	
R9664	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9665-72	ERJ3GEYJ103	M 10KOHM,J,1/16W	8	
R9674,75	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R9676-80	EXB38V680J	RESISTOR ARRAY	5	
R9681	EXB38V151J	RESISTOR ARRAY	1	
R9682	EXB38V680J	RESISTOR ARRAY	1	
R9683-87	EXB38V151J	RESISTOR ARRAY	5	
R9688	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R9689,90	ERJ3GEYJ151	M 150 OHM,J,1/16W	2	
R9691-95	TAJAAH0470JV	M 47 OHM,J,1/16W	5	D0GB470JA006
R9696,97	ERJ3GEYJ151	M 150 OHM,J,1/16W	2	
R9698	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R9699	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9701	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R9703	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9704-21	EXB38V151J	RESISTOR ARRAY	18	
R9722	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9723,24	TAJAAH0470JV	M 47 OHM,J,1/16W	2	D0GB470JA006
R9725	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9726	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R9727,28	ERJ3GEYJ151	M 150 OHM,J,1/16W	2	
R9729	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R9730	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9731,32	TAJAAH0470JV	M 47 OHM,J,1/16W	2	D0GB470JA006
R9733	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9734	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9736	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9739	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9745-48	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R9751-54	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9757-60	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9761	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9762-77	ERJ3GEYJ103	M 10KOHM,J,1/16W	16	
R9778	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9779,80	EXB38V151J	RESISTOR ARRAY	2	
R9781-96	ERJ3GEYJ103	M 10KOHM,J,1/16W	16	
R9797	EXB38V151J	RESISTOR ARRAY	1	
R9798,99	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R9800-16	EXB38V151J	RESISTOR ARRAY	17	
R9817	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R9818	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9819	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R9820	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9821-23	TAJAAH0470JV	M 47 OHM,J,1/16W	3	D0GB470JA006
R9824	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9825	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R9826	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9827,28	TAJAAH0470JV	M 47 OHM,J,1/16W	2	D0GB470JA006
R9830	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9831	EXB38V151J	RESISTOR ARRAY	1	
R9832	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9834-44	EXB38V151J	RESISTOR ARRAY	11	
R9845-50	EXB38V680J	RESISTOR ARRAY	6	
R9852-60	ERJ3GEYJ102	M 1KOHM,J,1/16W	9	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9861,62	TAJAAH0470JV	M 47 OHM,J,1/16W	2	D0GB470JA006
R9863	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9864	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R9865	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9867	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9870	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9872	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9881,82	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9885-88	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9890,91	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R9917	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9918,19	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9920	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9921	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R9937	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9944-46	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9947	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9948	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9955	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9956	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9962-65	EXB38V103J	RESISTOR ARRAY	4	
R9966,67	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9969	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9981	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9982-84	TAJAAH0680JV	M 68 OHM,J,1/16W	3	D0GB680JA006
R9985-87	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	3	
R9990	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9991-93	TAJAAH0680JV	M 68 OHM,J,1/16W	3	D0GB680JA006
RJ100	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
RL400	K6B1AGA00086	RELAY	1	⚠
RL401	TSEH0025	RELAY	1	K6B2AGA00020 ⚠
RM001	PNA4601M05TV	REMOCO RECEIVER	1	
S061	TSE4GD0001	POWER SWITCH	1	
S701	ESD11H220	SWITCH	1	
S1554-56	EVQPBD05R	SWITCH	3	
SC1	TJS3A9920	12P CONNECTOR	1	K1KA12A00156
SC2	K1KA10A00266	CONNECTOR	1	
SC3	K1KA11A00078	CONNECTOR	1	
SC4	TJS3A9680	7P CONNECTOR	1	K1KA07A00095
SC41-44	TJSF41260	60P CONNECTOR	4	K1KB60B00007
SD1-D4	K1KAA0A00089	CONNECTOR	4	
SS1	TJS3A9900	10P CONNECTOR	1	K1KA10A00218
SS8	TJS1A8790	3P CONNECTOR	1	K1KA03A00213
SS12	TJS1A8870	11P CONNECTOR	1	K1KA11A00073
SS15,16	TJS5A8630	7P CONNECTOR	2	K1KA07A00092
SS21	TJS5A8620	7P CONNECTOR	1	K1KB07A00030
SS27	TJS1A8830	CONNECTOR	1	K1KA07A00056
SS31	TJS5A8620	7P CONNECTOR	1	K1KB07A00030
SS34	TJS1A8790	3P CONNECTOR	1	K1KA03A00213
SS41-48	TJSF41013	13P CONNECTOR	8	K1MN13B00020
SS72	TJS1A8830	CONNECTOR	1	K1KA07A00056
SU1-U4	K1KAA0A00089	CONNECTOR	4	
T1,T2	TJSF31370	70P CONNECTOR	2	K1KB70A00009
T400	G4D5A0000008	SWITCHING TRANSFORMER	1	⚠
T401	G4D5A0000009	SWITCHING TRANSFORMER	1	⚠
T402	ETS25AD186AG	SWITCHING TRANS	1	⚠
T404,05	ETH19K191AM	H DRIVE TRANS	2	
T921	G4D3A0000039	SWITCHING TRANSFORMER	1	⚠
V34	VJP3172D008	8P CONNECTOR	1	K1KA08B00005

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
X3501	TSS9028-N	CRYSTAL	1	H0J184500008
X8001	TSSA115	CRYSTAL	1	H0J200500022
X8003	TSSA072	CRYSTAL	1	H0J202500001
X9001	TSSA081	CRYSTAL	1	H0J245500024
X9002	TSS9038-B	CRYSTAL	1	H0J200500016
X9004	H1A8405B0001	CRYSTAL	1	
X9500	H1A8405B0001	CRYSTAL	1	